EL-MOASSER

Mathematics

2026

By a group of supervisors

PARENTS' GUIDE

EL-MOASSER Interactive E-learning Application

FIRST TERM

3rd PRIMARY

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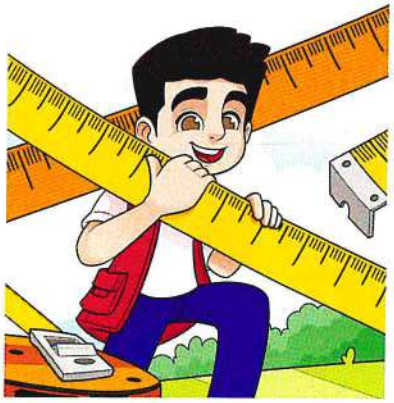

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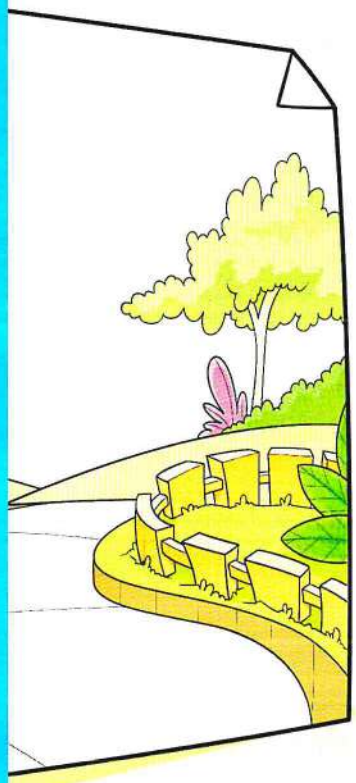
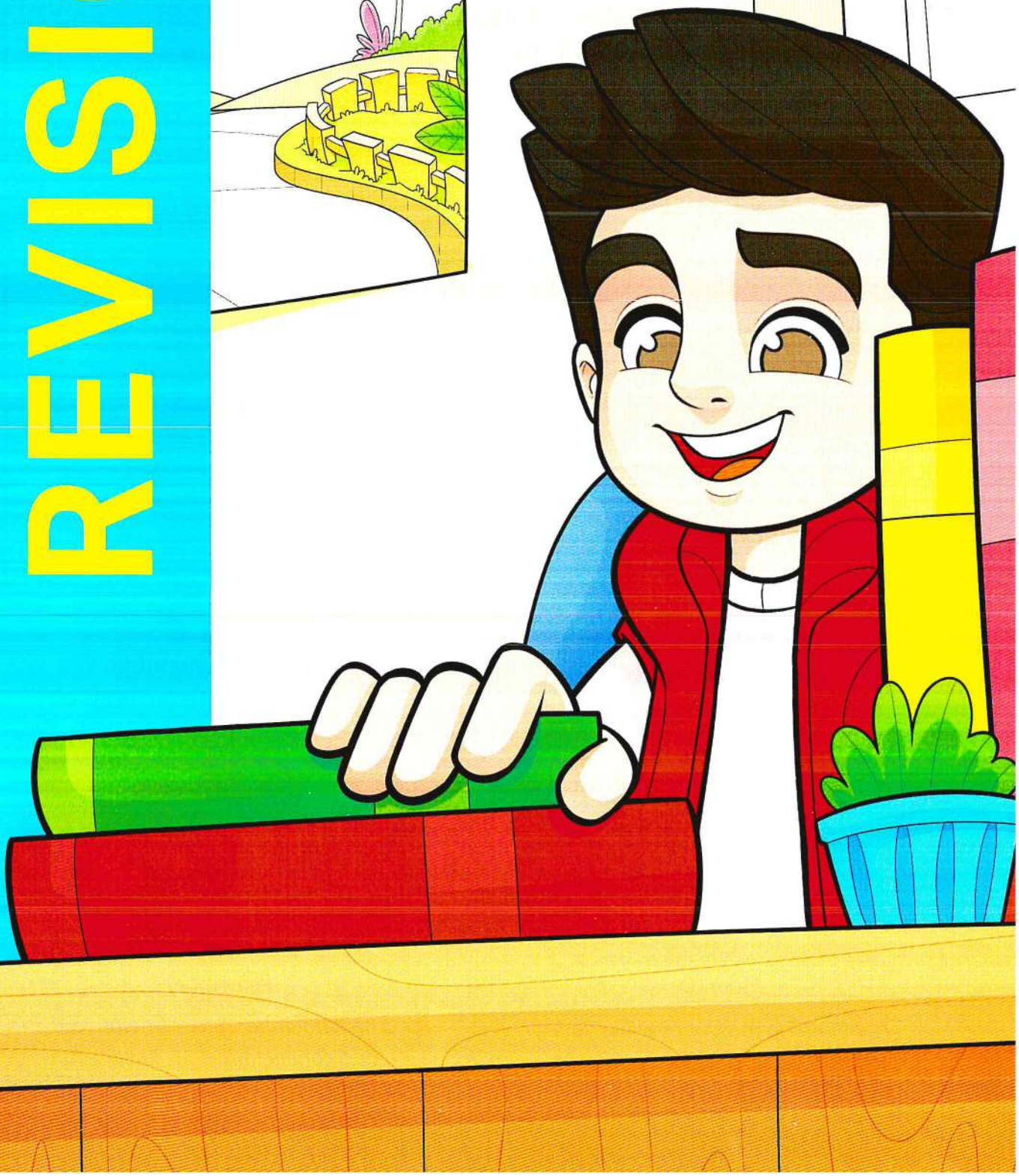
REVISION

▶ In this revision your child will review on what he/she had learned in primary two.





Revision 1

1 Count the amount. Write the total.

175 L.E.

_____ L.E.

Can you buy the ball ?

◯ Yes ◯ No

2 Write the time.

____ : ____

3 Subtract.

473
− 228
_____

4 Write odd or even.

a. 31 _____ b. 42 _____

c. 90 _____ d. 87 _____

5 Compare using > , < or =.

a. 138 ◯ 146

b. 599 ◯ 499

c. 368 ◯ 300 + 60 + 8

6 Choose.
Number of vertices of a cube is ____

◯ 5 ◯ 6

◯ 8 ◯ 12

7 Round each number to the nearest hundred.

a. 95 _____

b. 261 _____

c. 739 _____

8 238 hot dog sandwiches were sold.
415 burger sandwiches were sold.
How many sandwiches were sold together ?

_____

_____

9 Use the pictograph. How many children like mango juice best ?

Favorite juice	
Apple	☺☺☺☺
Orange	☺☺☺☺☺
Mango	☺☺☹

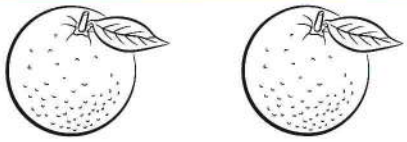
Key ☺ = 2 children

◯ 4 ◯ 5

◯ 8 ◯ 9

10 Color to show the fraction.

a.



$\frac{1}{2}$ of the oranges are orange.

b.

$\frac{3}{4}$ of the mangoes are green.

Revision 2

1 Complete.

a. _____ = 700 + 50 + 4

b. Number of sides of a triangle is _____

c. Two thirds = _____

d. 19 – _____ = 10

e. Five hundred fifteen in standard form is _____

2 Add to find the total.

23 + 14 + 39 + 16

_____

_____

3 Choose.

The mass of is about _____

- ◯ 1 gm
- ◯ 5 kg
- ◯ 50 kg
- ◯ 100 kg

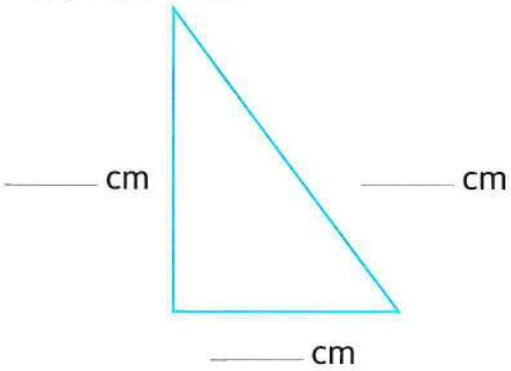
4 Choose.

61 + 28 is about _____

- ◯ 80
- ◯ 70
- ◯ 90
- ◯ 40

5 Draw the hour hand and the minute hand.

6 Measure and write the length of required sides.



7 Count the amount and write the total.

a.

_____ L.E.

b.

_____ L.E.

8 Omar has 354 pounds.

He gave his sister Mariam 160 pounds.

How much money does he have left ?

_____

_____

9 Complete each pattern.

a. 13, 15, 17, _____ , _____ , _____

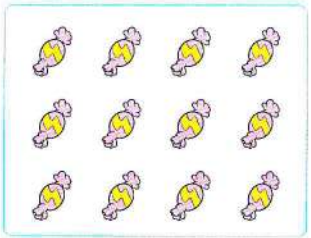
b. 89, 79, 69, _____ , _____ , _____

c. 5, 10, 15, _____ , _____ , _____

10 Choose.

The repeated addition equation of the opposite array is _____

- ◯ 4 + 4 + 4 + 4
- ◯ 3 + 3 + 3
- ◯ 4 + 4
- ◯ 3 + 3 + 3 + 3



Revision 3

1 Complete.

a. Number of vertices of trapezium is _____

b. The number of rows of the array 3 by 5 is _____

c. The value of 7 in the number 678 is _____

d. _____ – 19 = 7

2 Dalia baked a pizza and cut it into three equal pieces. Her brother ate one of them. What fraction of the pizza left ?

The fraction is $\frac{\_\_\_}{\_\_\_}$

3 Add.

a.

$$\begin{array}{r} 257 \\ +\ 81 \\ \hline \_\_\_\_ \end{array}$$

b.

$$\begin{array}{r} 139 \\ +\ 440 \\ \hline \_\_\_\_ \end{array}$$

4 Name the solid and write the missing number.

Name : _____

vertices ___ edges ___ flat faces ___

5 Subtract.

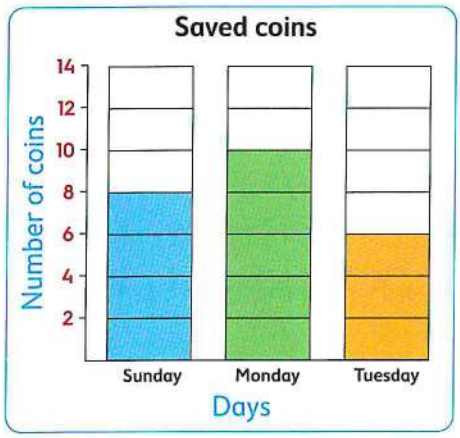
a.

$$\begin{array}{r} 459 \\ -\ 226 \\ \hline \_\_\_\_ \end{array}$$

b.

$$\begin{array}{r} 308 \\ -\ 120 \\ \hline \_\_\_\_ \end{array}$$

6 Use the bar graph. How many coins are saved on Monday ?



○ 5

○ 8

○ 10

○ 6

7 Arrange from the greatest to the smallest.

129 | 291 | 219 | 192

Order is : ____ , ____ , ____ , ____

8 Write the following numbers in words.

a. 80 _____ **b.** 5 _____

c. 14 _____ **d.** 60 _____

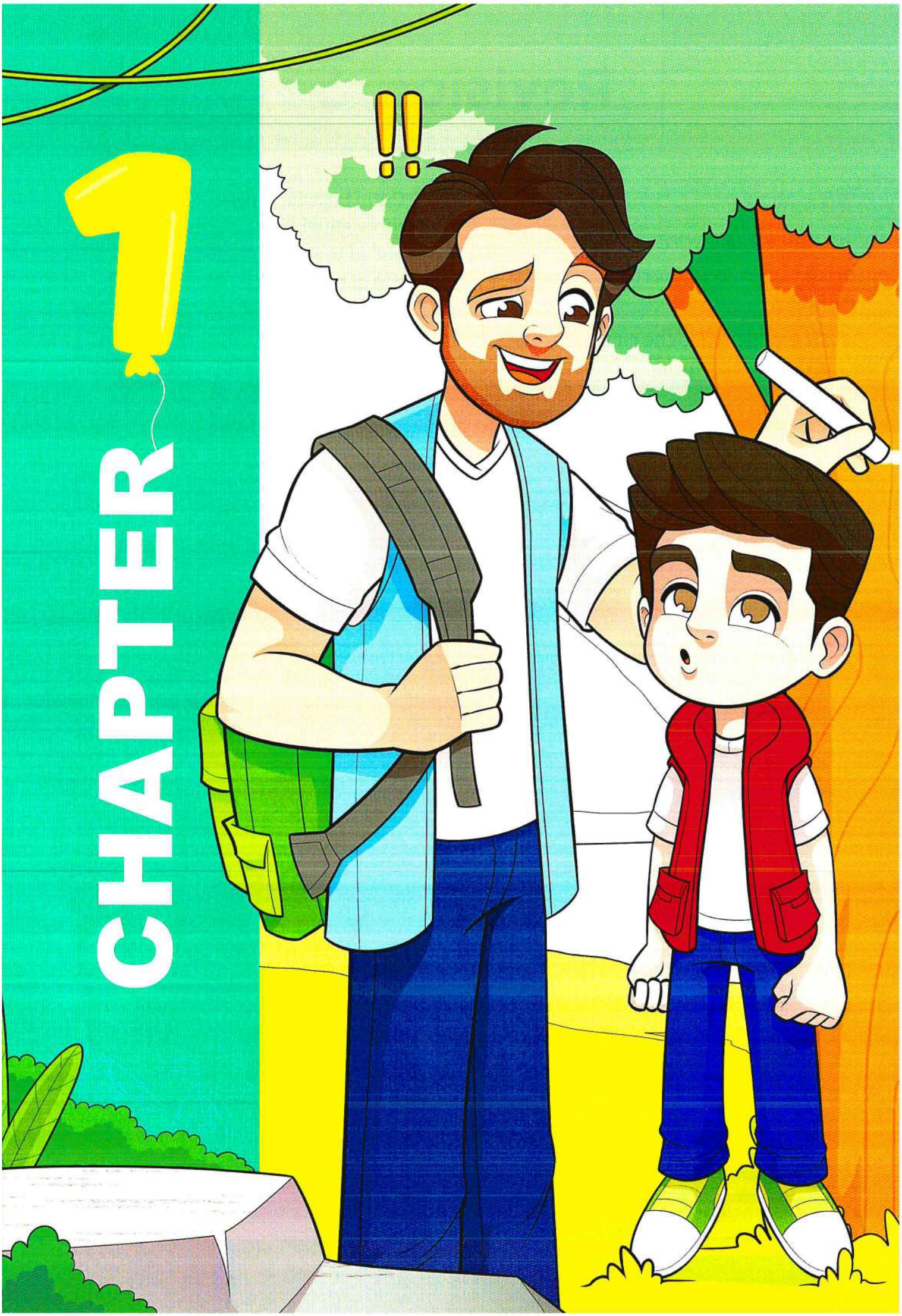
9 Write the time.
Then circle A.M. or P.M.

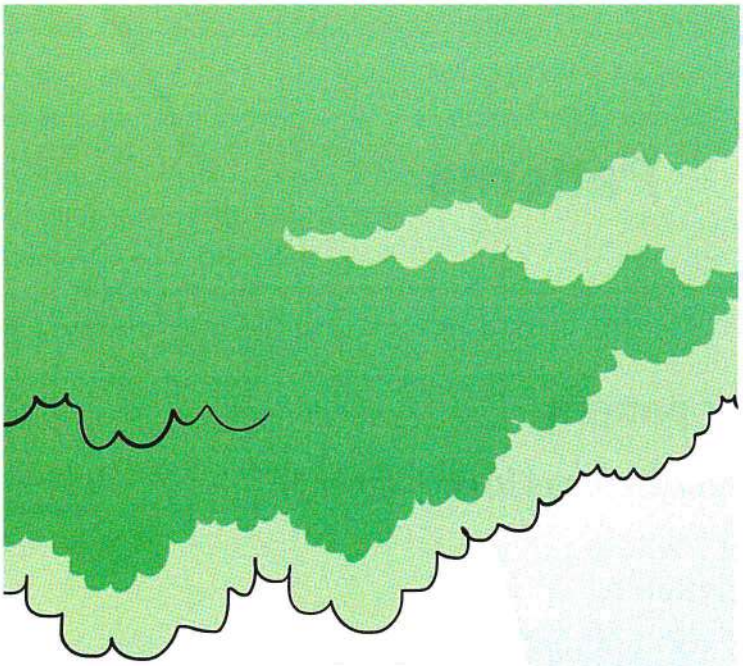
____ : ____

10 A fruit seller bought 67 kilograms of orange and 85 kilograms of apple.
What is the weight in all ?

_____

_____


CHAPTER 1
!!



Outcomes of chapter one :

At the end of chapter one, your child will be able to:

▶ **Lesson 1 :**

Patterns

- Identify repeating and number patterns.
- Determine the next two elements in a pattern.

▶ **Lesson 2 :**

More of bar graphs

- Identify elements of a bar graph.
- Organize, represent, and analyze data from a bar graph.

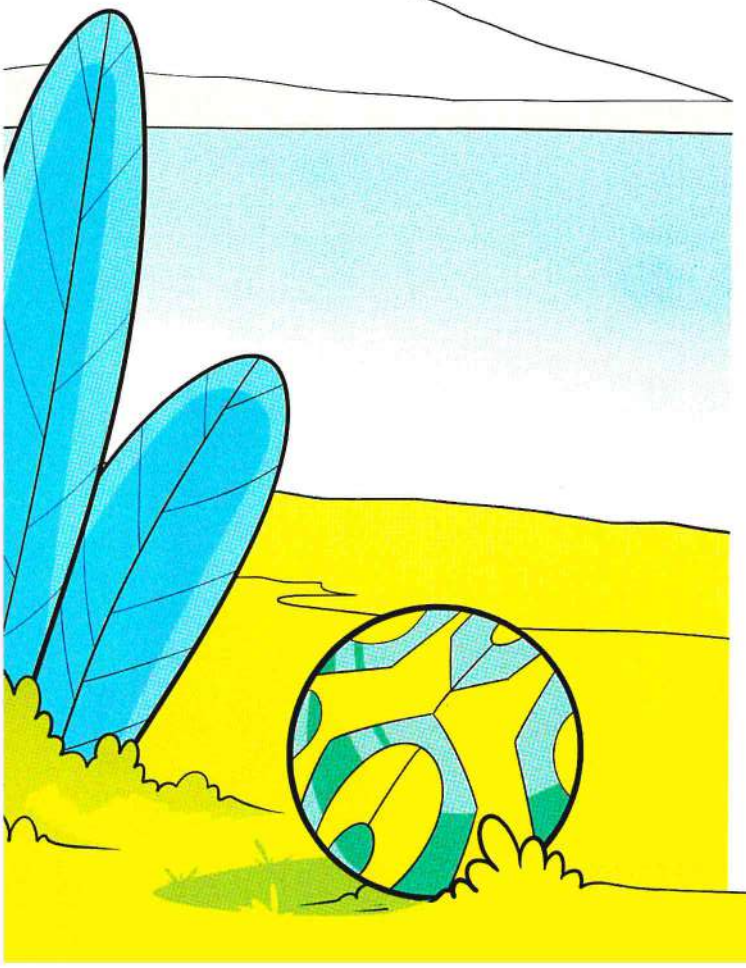
▶ **Lesson 3 :**

Line plot

- Identify the elements of a line plot.
- Collect and record data.
- Create a line plot.

▶ **Lessons 4 to 6 :**

- **Measuring lengths in centimeter**
- **Measuring lengths in meter**
- **Measuring lengths in millimeter**
- Discuss centimeter measurement.
- Measure the lengths of objects in centimeters.
- Estimate the lengths of objects in centimeters and meters.
- Discuss meter measurement.
- Demonstrate understanding of the relationship between centimeters and meters.
- Determine whether to use centimeters or meters to measure length.
- Demonstrate understanding that centimeters are composed of millimeters.
- Measure the lengths of objects in millimeters.
- Describe the pattern when measuring the same object in millimeters and centimeters.



Lesson 1

Patterns

Learn 1 Visual and number pattern

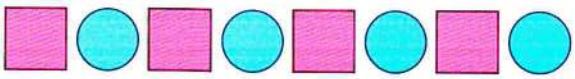
- Pattern is an ordered set of objects or numbers related to each other in a certain rule.

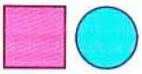
In this lesson you will learn two kinds of patterns.

Visual pattern

- Visual pattern is an ordered set of objects have repeated part called pattern unit.

Example :

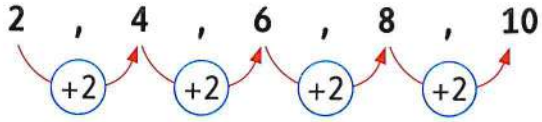


- The pattern unit is 

Number pattern

- Number pattern is a list of numbers that follow a certain rule.

Example :



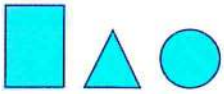
- The pattern rule is $\boxed{+\ 2}$

Example 1

Extend the pattern.

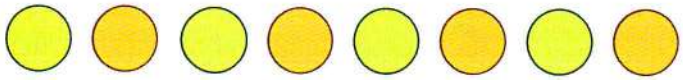
Solution

a. _____

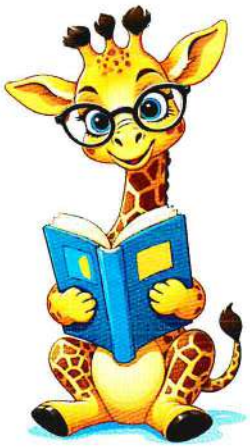
b. _____ 

Check

Extend the pattern.

a.  _____

b. _____



Notes for parents

- Ask your child to find examples of patterns in your home.

Example 2

Discover the pattern rule to extend the pattern and write the rule.

a. 10 , 20 , 30 , 40 , _____ , _____ Rule ▶ [ ]

b. 95 , 90 , 85 , 80 , _____ , _____ Rule ▶ [ ]

Solution

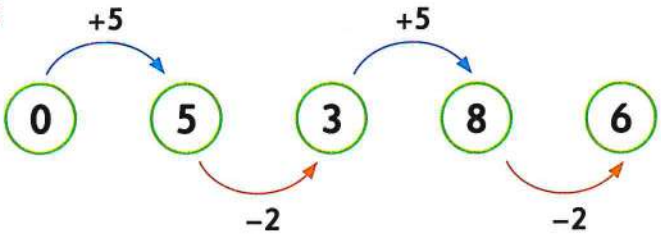
a. 50 , 60 Rule ▶ [+ 10] ▶ **Note :** The numbers are getting larger.

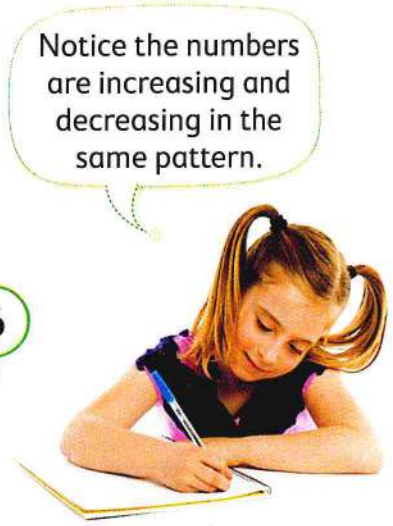
b. 75 , 70 Rule ▶ [– 5] ▶ **Note :** The numbers are getting smaller.

Remark

- Sometimes number patterns have a rule that requires to add and subtract in the same pattern.

For example :





The rule is : [**+ 5 , – 2**]

Check

Use the pattern rule to extend the pattern.

+ 3 + 3 + 3 + 3 + 3 + 3

27 **30** **33** **36** **39** _____ _____

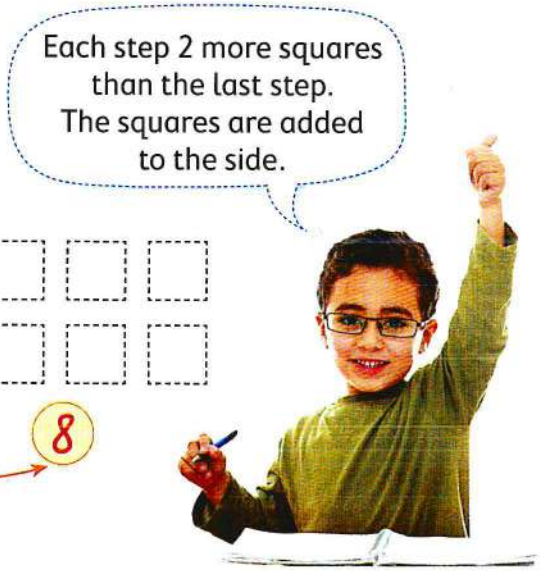
– 10 – 10 – 10 – 10 – 10 – 10

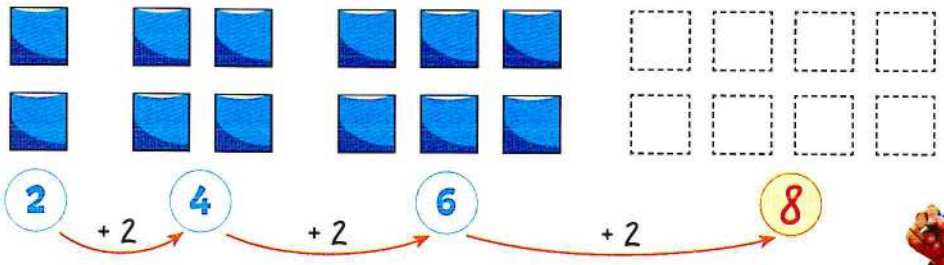
96 **86** **76** **66** **56** _____ _____

- Practice your child skip-counting by twos, threes, fours, fives and tens.
- Ask your child to find the rule and follow it to complete the patterns.

Learn 2

- In this pattern you can predict what might come next in the pattern.



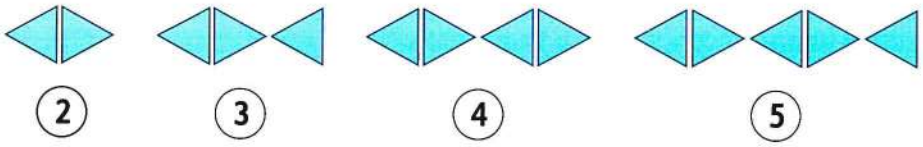


So, The next step has **8** squares.

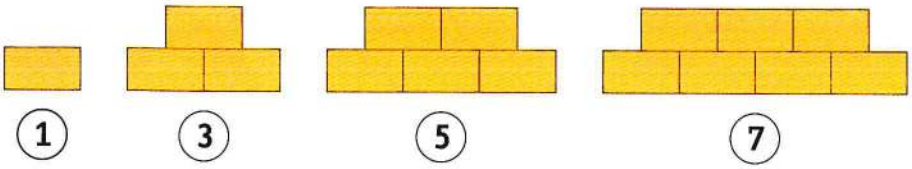
Example 3

Extend the pattern. Write the number of items you draw.

a.

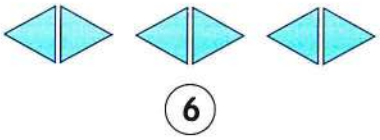


b.

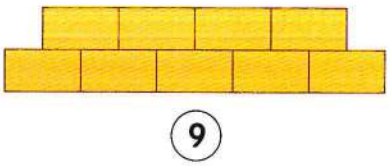


Solution

a.

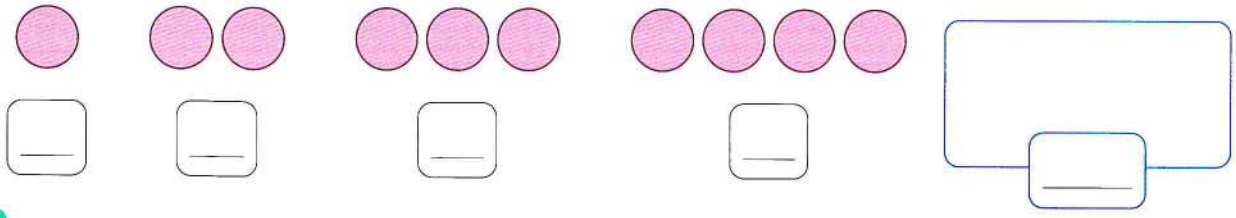


b.



Check

Draw what might come next in the pattern. Write the number of items in each step.



Notes for parents

- Help your child build a pattern using small objects such as : dry pasta.

Exercise 1

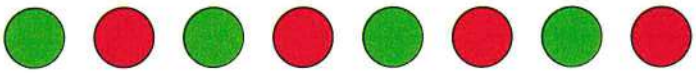
On Lesson 1

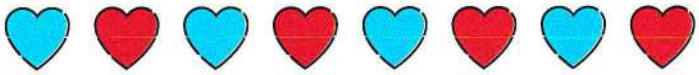
Patterns

From the school book

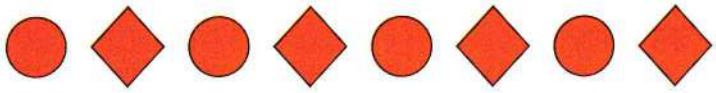
1 Extend the pattern.

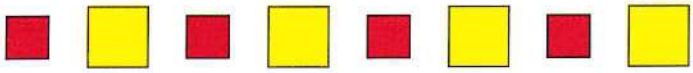
Work area

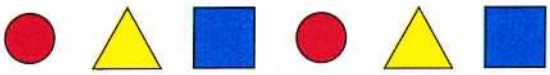
a. 

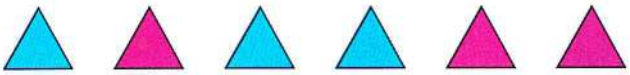
b. 

c.

d. 

e. 

f. 

g. 

h.

2 Discover the pattern rule. Write the missing numbers and the rule.

		Rule
a.	20 , 22 , 24 , 26 , ____ , ____	____
b.	70 , 65 , 60 , 55 , ____ , ____	____
c.	83 , 73 , 63 , 53 , ____ , ____	____
d.	12 , 23 , 34 , 45 , ____ , ____	____
e.	21 , 31 , 41 , 51 , ____ , ____	____
f.	49 , 46 , 43 , 40 , ____ , ____	____

3 Find the rule. Complete in the same pattern.

a. 30, 40, 50, 60, 70, ____, ____, ____, ____, ____

b. 52, 54, 56, 58, ____, ____, ____, ____, ____

c. 39, 35, 31, 27, ____, ____

d. 98, 88, 78, 68, ____, ____

e. 33, 37, 41, 45, ____, ____

f. 120, 125, 130, 135, ____, ____

g. 95, 90, 85, 80, ____, ____

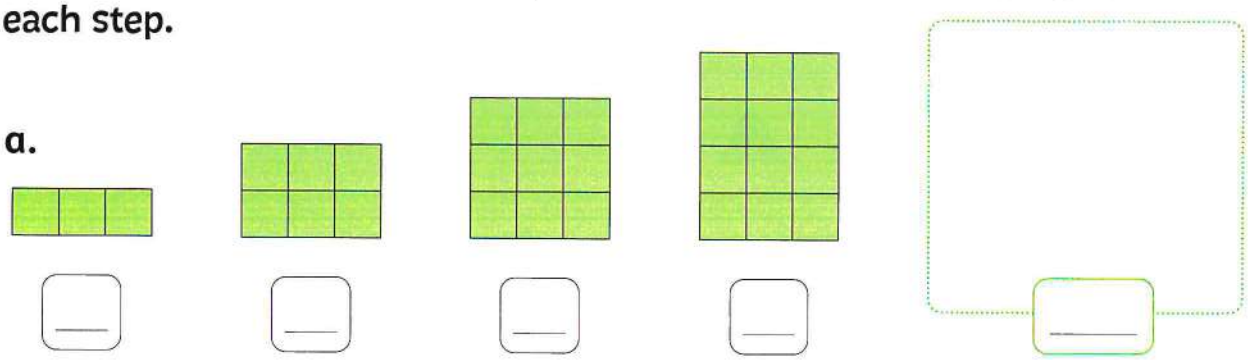
h. 58, 54, 50, 46, ____, ____

i. 10, 22, 34, 46, ____, ____

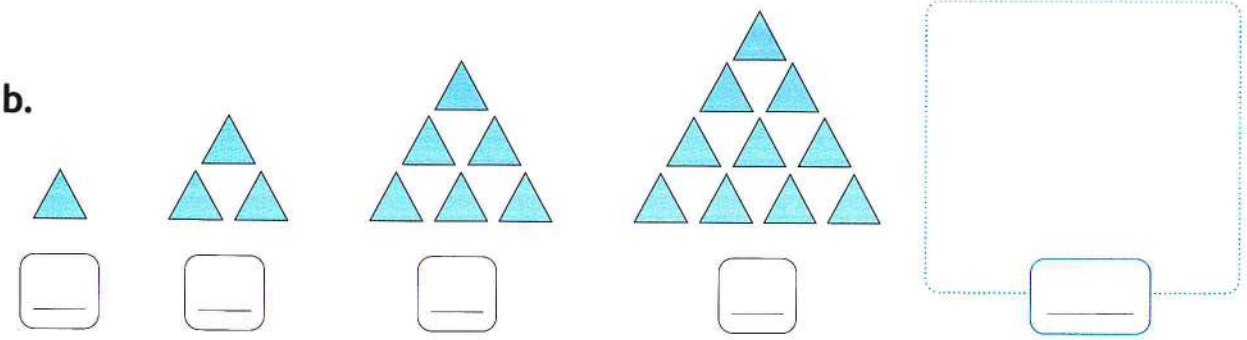
j. 24, 35, 46, 57, ____, ____

4 Draw what comes next in each pattern. Write the number of items in each step.

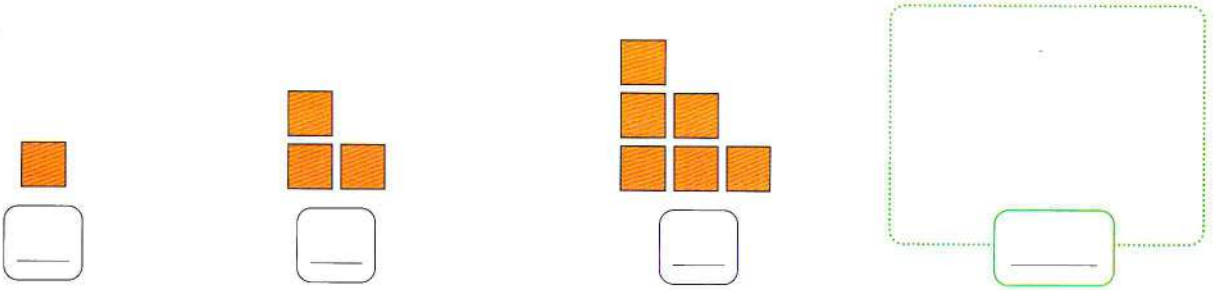
a.

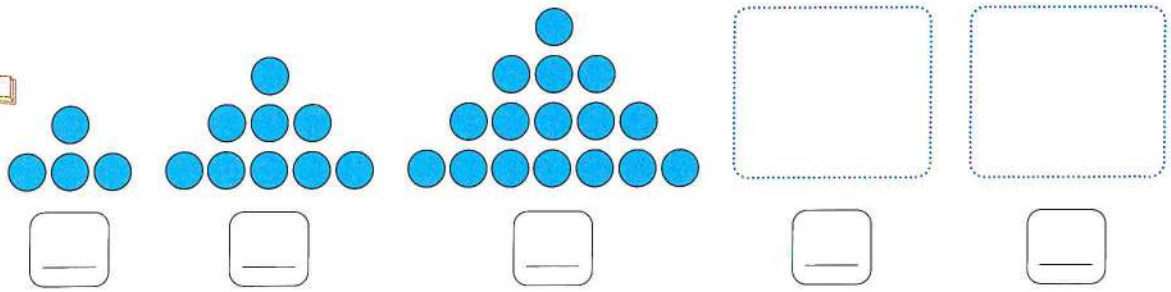


b.



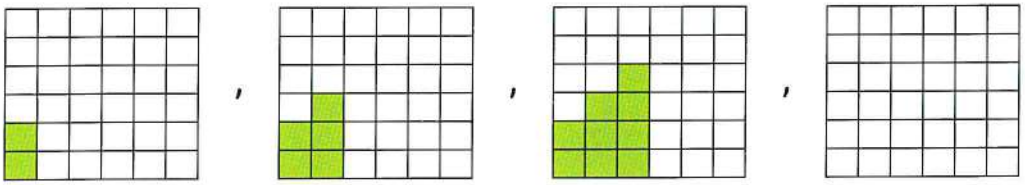
c.

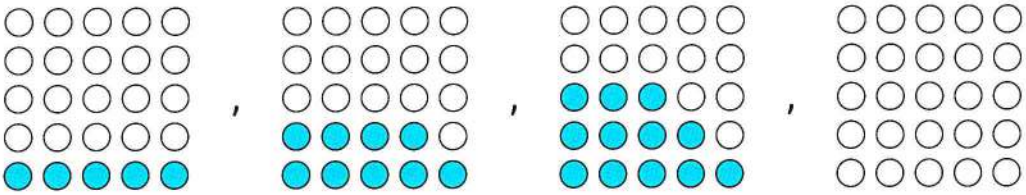


d. 

5 Color to complete the pattern.

a.

b. 

c. 

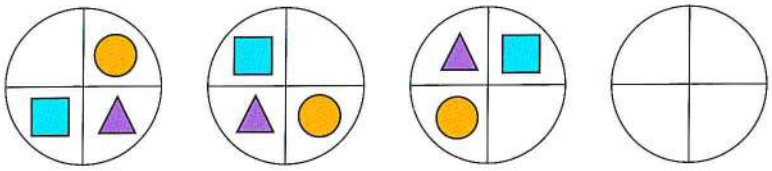
Challenge

6 Find the rule. Extend the pattern.

a. 30 , 35 , 33 , 38 , 36 , 41 , 39 , _____ , _____

b. 1 , 2 , 4 , 7 , 11 , _____ , _____

c. 1 , 1 , 2 , 3 , 5 , _____ , _____

d. 

Place a smiley face

Lesson 2

More of bar graphs

Learn Tally marks, tally table and bar graph

- Tally mark is a mark used to record votes or other items.

Tally marks

| means 1   𝍸 means 5

Tally	|	||	|||	||||	𝍸
Number	1	2	3	4	5
Tally	𝍸 |	𝍸 ||	𝍸 |||	𝍸 ||||	𝍸 𝍸
Number	6	7	8	9	10

- Tally table is a table uses tally marks to record data.

Example 1

This a survey about favorite time of a day. Make a tally table and then use it to make a bar graph.

Solution

Favorite times of day		
Times of day	Tally	Number
Morning	||||	4
Lunchtime	|||	3
Afternoon	𝍸 |||	8
Evening	|||	3
Night time	||	2

Tally table

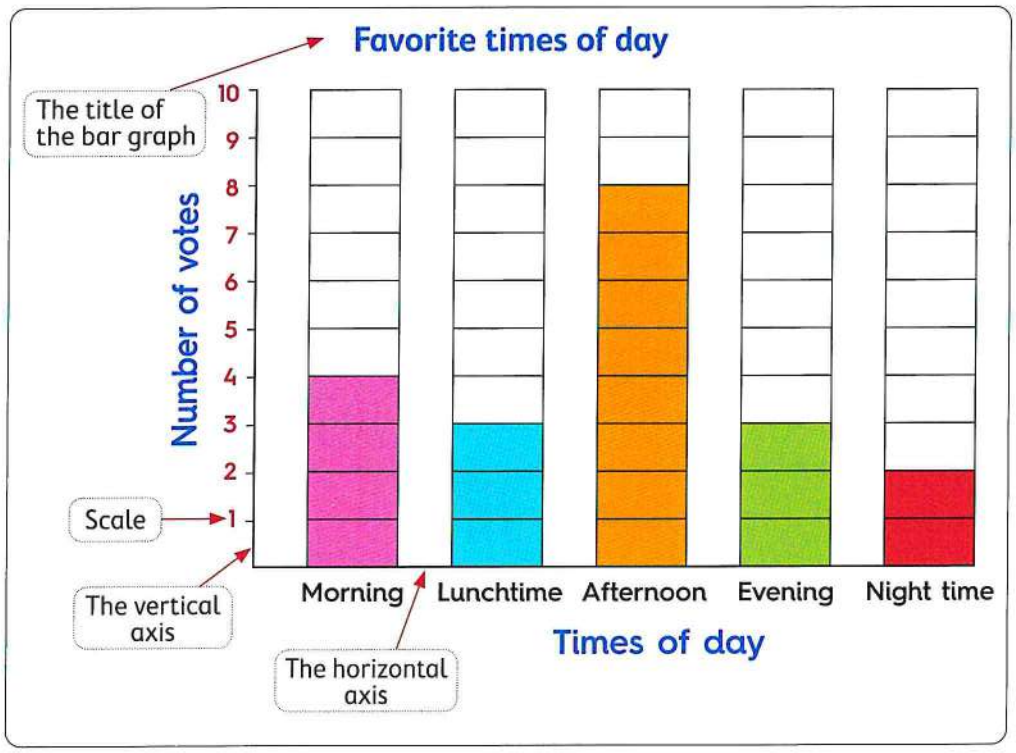
Morning	Night time
Evening	Lunchtime
Afternoon	Afternoon
Afternoon	Afternoon
Evening	Morning
Afternoon	Lunchtime
Lunchtime	Morning
Morning	Afternoon
Evening	Night time
Afternoon	Afternoon

Think

It is better to record votes by using tally table than record it by writing its name.

Notes for parents

- Ask your child to use tally marks to count the number of girls and the number of boys in his/her family.



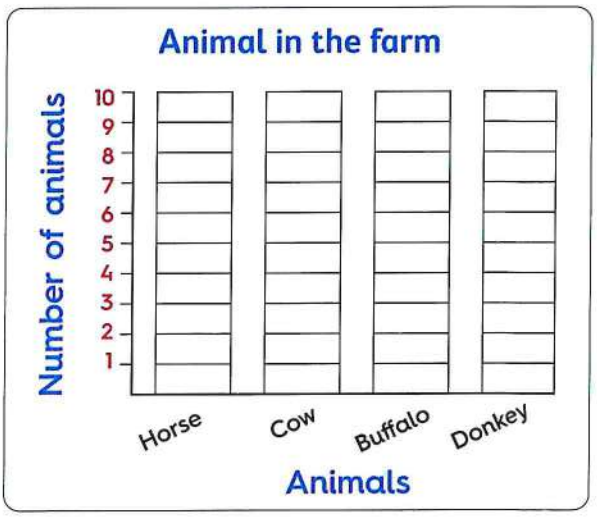
- Bar graph is a graph that uses bars to show data.
- Each bar graph has a scale which is the numbers that show the units used on a bar graph.

Check

Complete the tally table. Color the graph to show data, then answer the questions.

Animals in the farm

Animal	Tally	Number
Horse	||	____
Cow	~~||||~~	____
Buffalo	~~||||~~ |||	____
Donkey	|||	____



- What is the number of cows in the farm ? _____
- Which animal has the greatest number ?_____
- Which animal has the least number ? _____
- How many animals are there in the farm ? _____

- Ask your child to survey another favorite such as favorite animals and organize his/her data using tally table.

Exercise 2

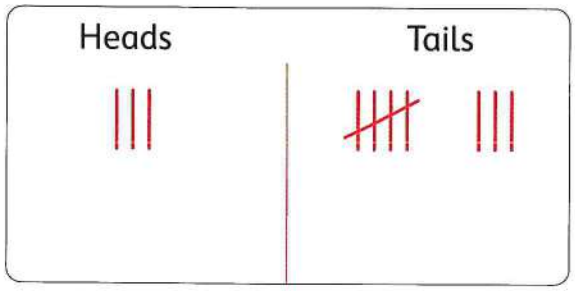
On Lesson 2

More of bar graphs

1 Here are some other tallies.

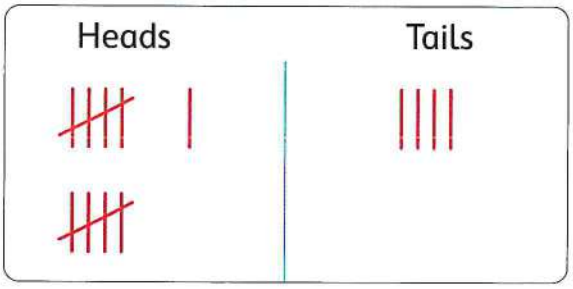
Count how many heads, how many tails, and how many in all.

a.



- How many heads ? _____
- How many tails ? _____
- How many in all ? _____

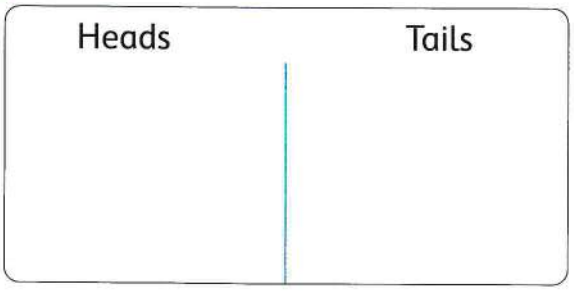
b.



- How many heads ? _____
- How many tails ? _____
- How many in all ? _____

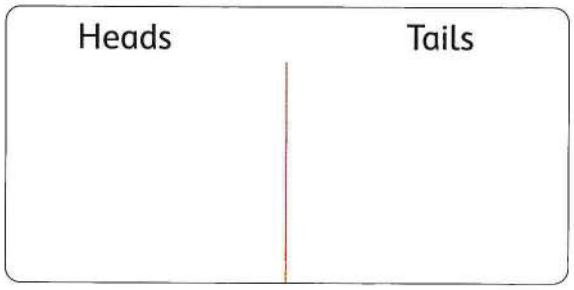
2 Show the tallies for each chart.

a.



- Show 7 heads.
- Show 13 tails.
- How many in all ? _____

b.



- Show 12 heads.
- Show 18 tails.
- How many in all ? _____

3 Hany made this list of the shirt colors his friends were wearing.

Make a tally table. Then answer.

Shirt color			
Blue	Red	Blue	Green
Green	Green	Blue	Red
Blue	Blue	Red	Blue
Red	Red	Blue	Red
Blue	Blue	Blue	Red

a. How many children were wearing blue shirts ? _____

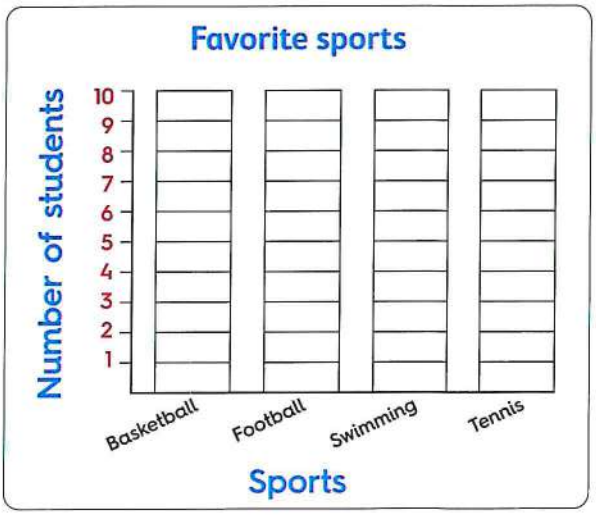
b. What was the color of the most shirt ?_____

c. List the shirt color data from the least to the greatest : _____ , _____ , _____

Shirt color		
Color	**Tally**	**Number**
____		____
____		____
____		____

4 **Count the tallies. Write the total. Color the graph to show the data.**

Favorite sports		
Sports	**Number of students**	**Number**
Basketball	||||	_____
Football	~~||||~~ |||	_____
Swimming	~~||||~~ |	_____
Tennis	|||	_____



Answer the questions :

a. How many students did vote for football ?

_____ students.

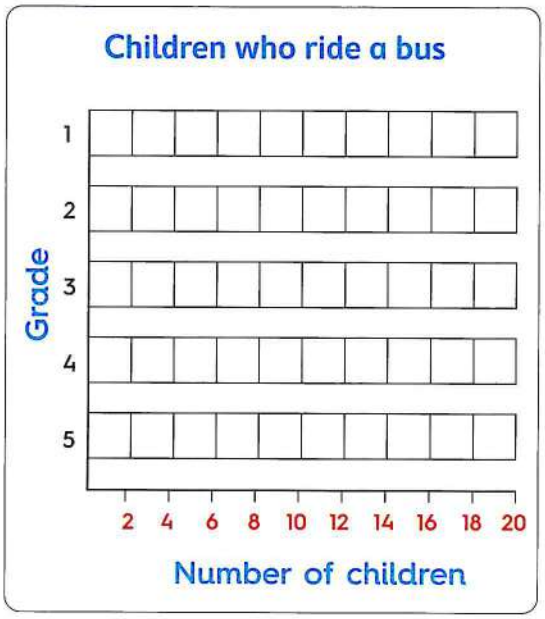
b. Which sport is favored by the most ? _____

c. Which sport is favored by the least ? _____

5 Count the tallies. Write the total. Color the graph to show the data.

Children who ride a bus

Grade	Number of children	Number
1	𝍸 𝍸	_____
2	𝍸 𝍸 𝍸 |	_____
3	𝍸 𝍸 𝍸	_____
4	𝍸 𝍸 𝍸 𝍸	_____
5	𝍸 𝍸 𝍸 |||	_____



1. Answer the following questions :

a. How many children in grade 4 ride the bus to school ? _____

b. How many children in grade 3 ride the bus to school ? _____

c. Which grade has the most children who ride the bus ? _____

d. Which grade has the least children who ride the bus ? _____

---

2. Put (✓) to the correct statement or (✗) to the incorrect statement.

a. Number of children in grade 5 who ride bus to school is greater than number of children in grade 2 who ride bus to school. ( )

b. Number of children are equal in grade 2 and 3 who ride bus to school. ( )

c. Number of children in grade 3 who ride bus to school is 15 ( )

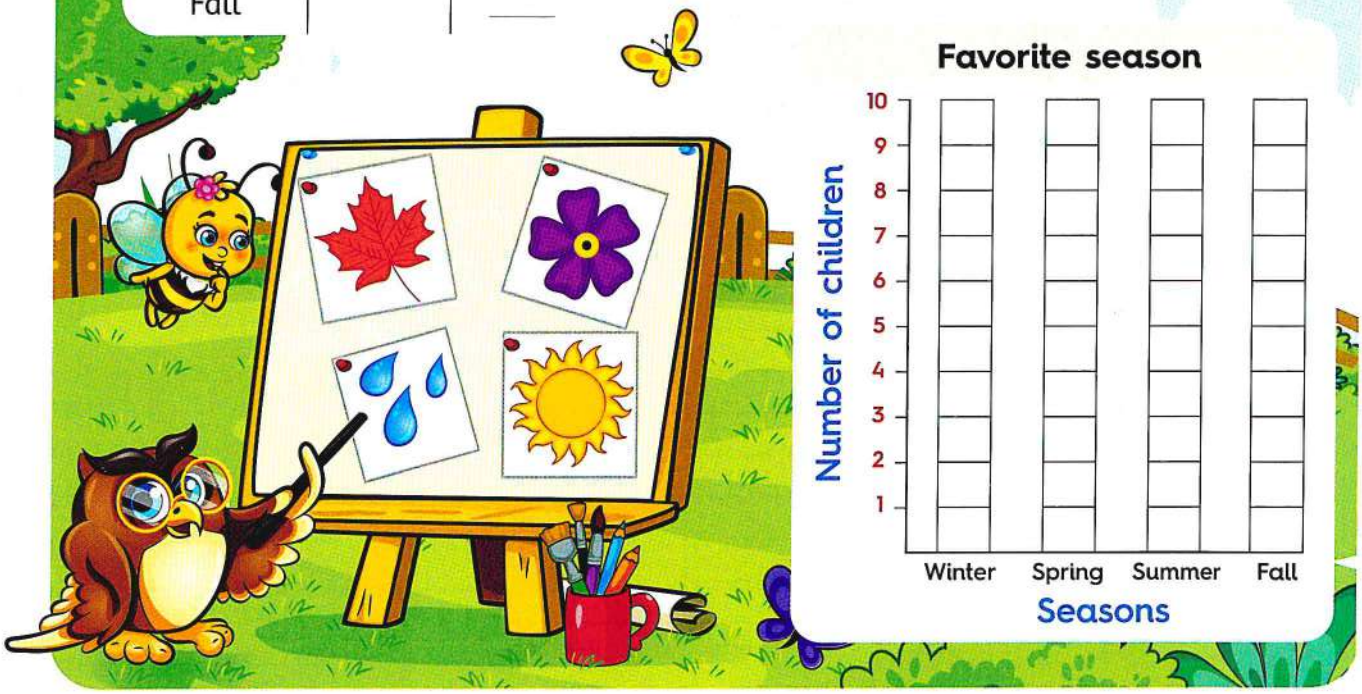
d. Number of children in grade 1 and grade 4 who ride bus to school is 60 ( )

6 This is a survey about our favorite season in the class.
Make a tally table and then use it to make a bar graph.

Our favorite season

Season	Tally	Number
Winter		____
Spring		____
Summer		____
Fall		____

Summer	Winter	Summer	Fall
Fall	Winter	Winter	Summer
Fall	Summer	Summer	Fall
Winter	Fall	Summer	Spring
Spring	Summer	Fall	Summer



1. Answer the questions.

a. Which season is favored by the most ? _____

b. Which season is favored by the least ? _____

c. How many students did vote in total ? _____

2. Put (✓) to the correct statement or (✗) to the incorrect statement.

a. Number of students who liked summer is 8 ( )

b. Number of students who liked fall more than winter is 3 ( )

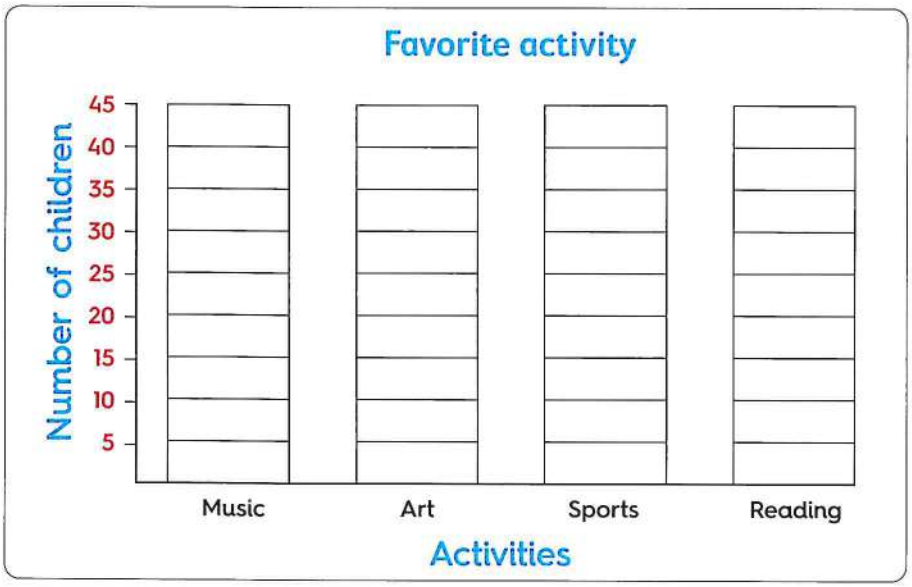
c. Number of students who liked spring and summer altogether is 10 ( )

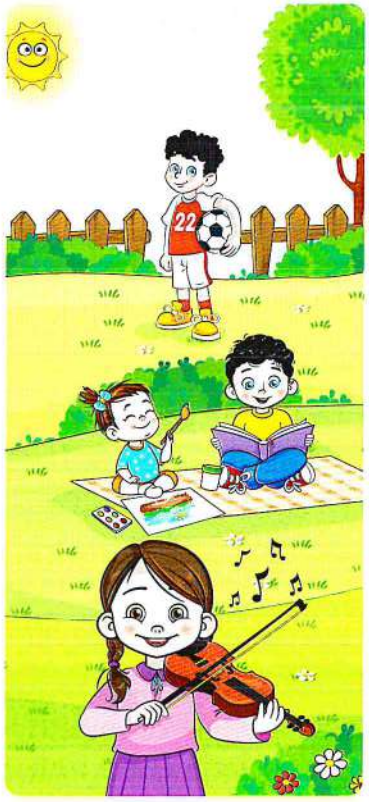
7 Complete the tally table, then use it to make a bar graph.

Favorite activity

Activity	Tally	Number
Music	𝍸 𝍸 𝍸 𝍸	____
Art	𝍸 𝍸 𝍸 𝍸 𝍸	____
Sports	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	____
Reading	𝍸 𝍸 𝍸 𝍸 𝍸	____

- **Convert the same data into a bar graph.**





1. Answer following questions.

a. How many people liked music best ? _____ people.

b. Which activity is liked the least ? _____

c. Which activity is liked the most ? _____

d. How many people in all liked art and sports activities ? _____ people.

e. How many people liked sports more than art ? _____ people.

2. Compare. Write ">, = or <".

a. Number of people who liked reading. ◯ Number of people who liked art.

b. Number of people who liked sports. ◯ Number of people who liked music.

Place a smiley face

Lesson 3

Line plot

Learn What is a line plot ?

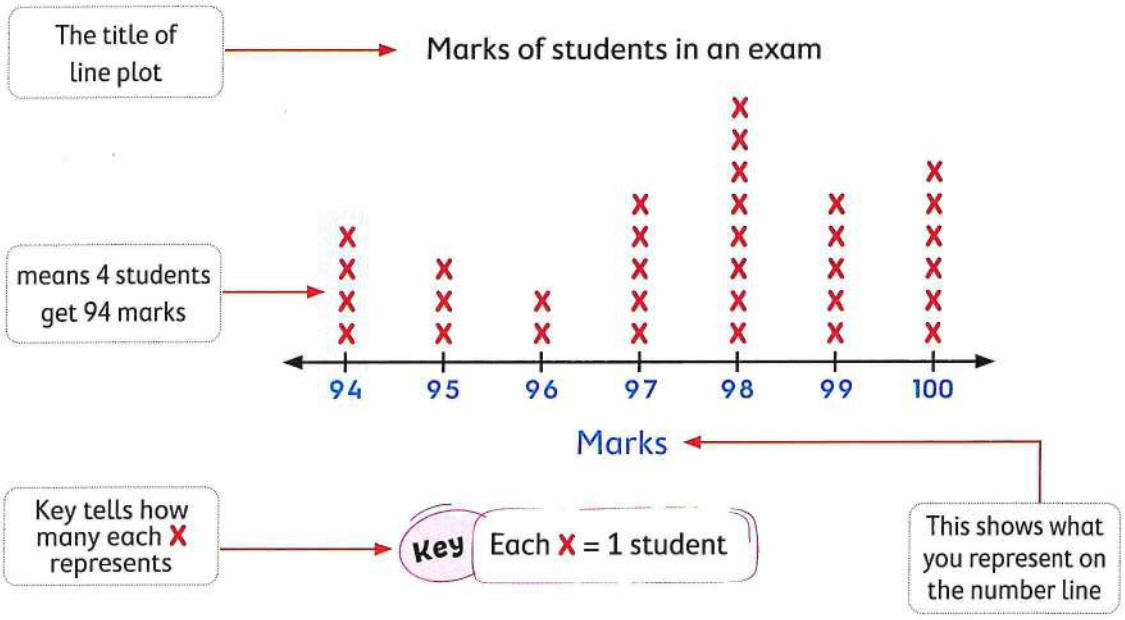
- Line plot is a graph shows how many times something happened.
- It is a graph that shows the data as **X**'s above a number line.

Example

The following table shows the marks of students in an exam :

Marks	94	95	96	97	98	99	100
Number of students (frequency)	4	3	2	5	8	5	6

You can show these data using a line plot as follows :



From the graph :

- The number of students who get 98 marks is 8 students.
- The number of students who get smaller than 98 is 5 + 2 + 3 + 4 = 14 students.
- The number of students who get greater than 98 is 5 + 6 = 11 students.
- The number of students who get the highest mark is 6 students.
- The number of students who get the lowest mark is 4 students.

Notes for parents

- Tell your child that the "frequency" means how many times a piece of data appears.

Example

The following data shows the weights of 30 students in kilograms.

Make a line plot to show these data, and then answer the questions.

28	26	29	24	26	30
30	25	28	27	28	26
24	30	25	30	28	28
25	26	28	25	28	30
26	24	29	24	30	26

a. How many students weight 25 kilograms ? _____

b. What is the frequency of 28 in these data ? _____

c. What weight has the most frequency ? _____

d. What weight has the least frequency ? _____

e. How many students weight less than 26 kilograms ? _____

f. How many students weight more than 27 kilograms ? _____

Solution

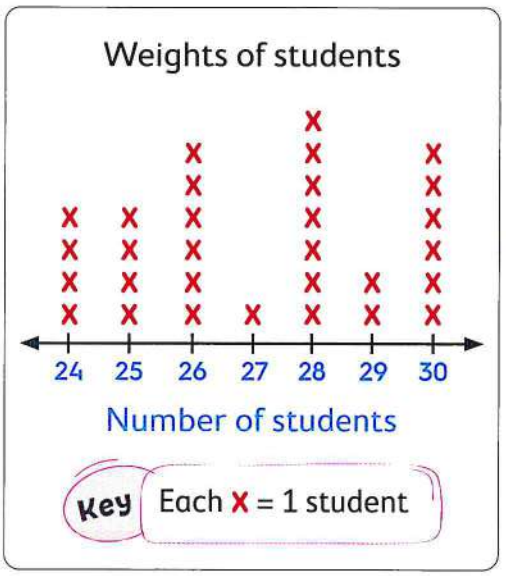
To make a line plot for these data follow the following steps :

First : Determine the lowest and the greatest weight.

- The lowest weight = 24 kilogram.
- The greatest weight = 30 kilogram.

Second : Make a tally table shows how many times each weight appears.

Weights	24	25	26	27	28	29	30
Tallies	||||	||||	~~||||~~ |	|	~~||||~~ ||	||	~~||||~~ |
Number of students (Frequency)	4	4	6	1	7	2	6



a. 4 students

b. 7 students

c. 28 kilograms

d. 27 kilograms

e. 4 + 4 = 8 students

f. 7 + 2 + 6 = 15 students

Notes for parents

- Remind your child that a number line can start at any number, and the numbers go on forever.

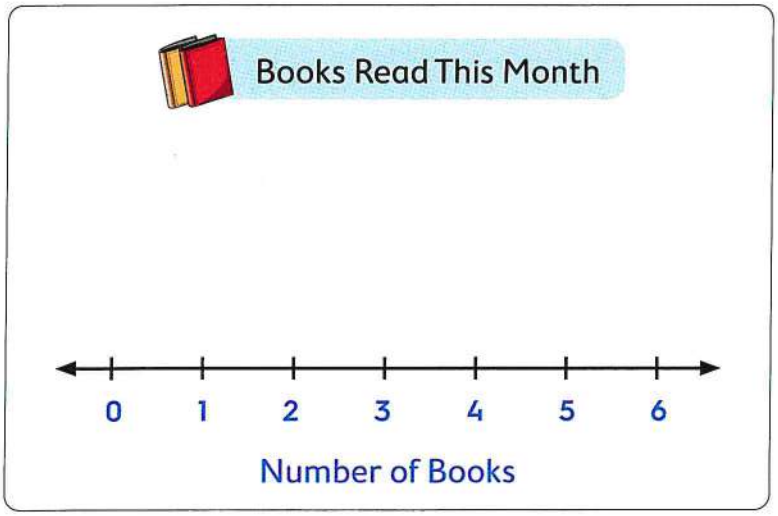
Check

The opposite data shows the number of books read by 20 children in a month, complete the tally table, and make a line plot.

How many books did you read in this month?

4	5	2	3	4
6	1	4	1	5
1	5	0	4	5
5	2	4	5	6

Number of books	0	1	2	3	4	5	6
Tallies							
Number of children	____	____	____	____	____	____	____



Key: Each x = 1 child

Answer the following questions :

a. How many children read 6 books ? _____

b. How many children read 4 books ? _____

c. How many children did not read any book ? _____

d. How many children read more than 3 books ? _____

e. How many children read 10 books ? _____

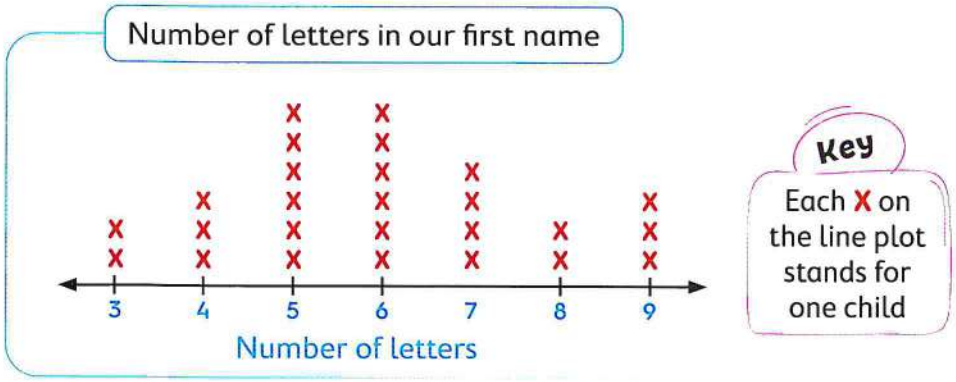
• Remind your child that "𝍸" equals 5 times.

Exercise 3

On Lesson 3

Line plot

1 **Use the line plot to answer the questions.**



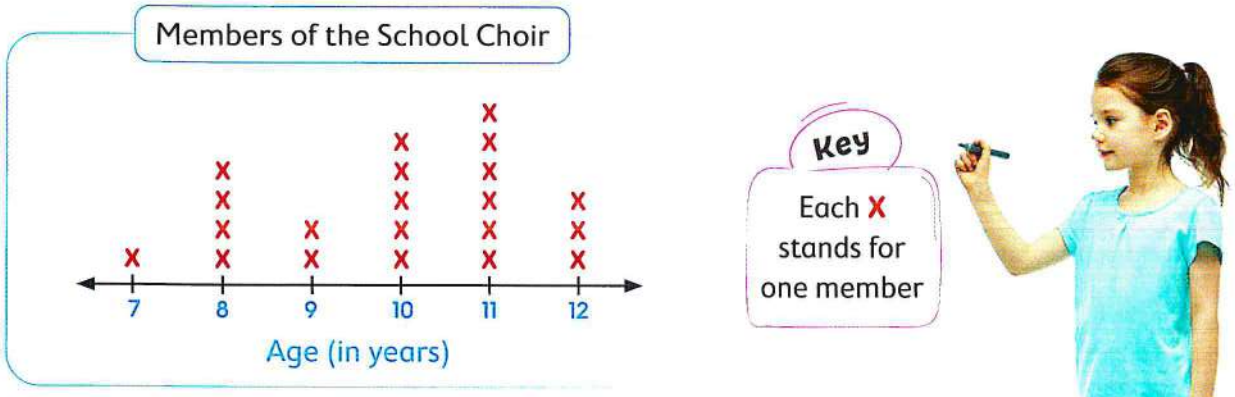
a. How many children have 5 letters in their first name ? _____ children.

b. What is the smallest number of letters in a child's first name ? _____ letters.

c. What is the greatest number of letters in a child's first name ? _____ letters.

---

2 The data in this line plot shows the ages of a group of students in a school choir. The number line shows the ages of the students.
Use the line plot to answer the questions.



a. How many students are 8 years old ? _____

b. How many students are 10 years old ? _____

c. How many students are 12 years old ? _____

d. What is the frequency of 11 years in this data ? _____

e. How many students are in the choir ? _____

f. How many students are younger than 10 years old ? _____

3 Use the table to draw a line plot.

Marks of students in an exam

Number of students

Marks of students in an exam

Marks	Number of students
15	2
16	1
17	3
18	5
19	4
20	2

Key Each x = _____ student

4 Use the table to draw a line plot.

Ages of children in karate class

_____

Ages of children in karate class

Age in years	Tallies
7	||
8	||||
9	||
10	~~||||~~ |
11	|||
12	||
13	|

Key _____

Use the line plot to answer the questions :

a. How many children in the class are 11 years ? _____ children.

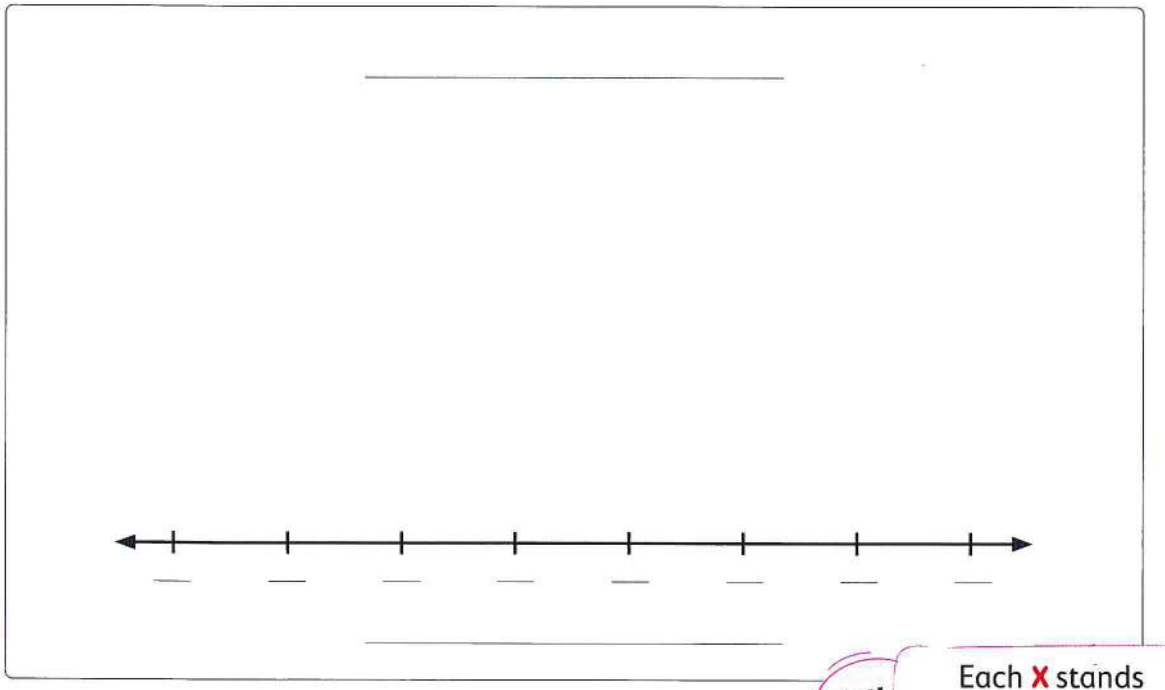
b. What age is the greatest number of children ? _____ years old.

c. How many children are in karate class in all ? _____ children.

5 **The following numbers are the number of study hours per week for a number of students.**

15	14	17	20	21	19
20	18	19	14	16	15
21	15	18	16	19	20
14	17	19	21	20	15
16	14	15	19	21	20

Hours								
Tally								
Frequency								



Key: Each **X** stands for _____ student

Answer the following questions :

a. How many students study 17 hr. per week ? _____

b. How many students study 21 hr. per week ? _____

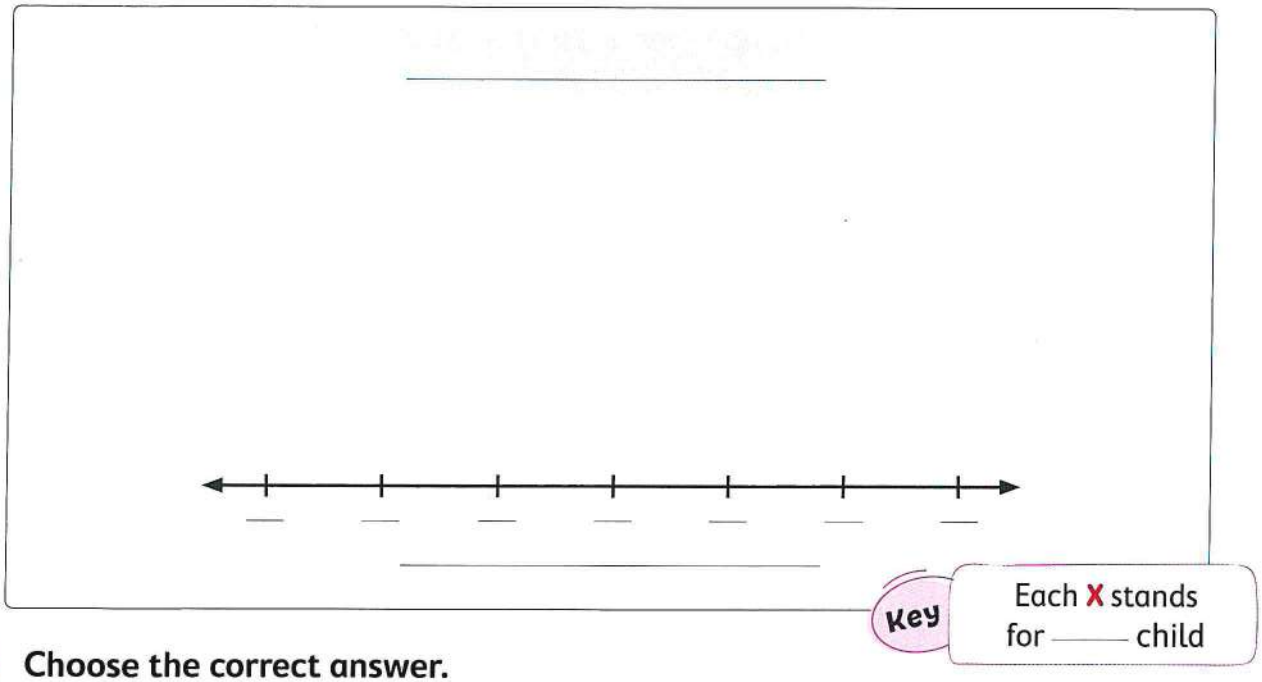
c. What is the greatest number of students study a certain number of hours ? _____

d. What is the smallest number of students study a certain number of hours ? _____

6 **The following numbers are the money saved by a number of children in a week in pounds.**

50	60	40	30	90	80
40	50	60	70	80	90
50	70	80	90	60	50
70	50	50	60	80	50
70	60	50	40	50	80

Saved money								
Frequency								



1. Choose the correct answer.

a. The number of children saving 90 pounds is _____ (3 or 4 or 5)

b. The number of children saving the least amount of money is _____ (3 or 2 or 1)

c. The greatest number of children saved _____ pounds. (50 or 60 or 90)

2. Put (✓) to the correct statement or (✗) to the incorrect statement.

a. The number of children who saved 70 pounds is 4. ( )

b. The smallest number of children saved 50 pounds. ( )

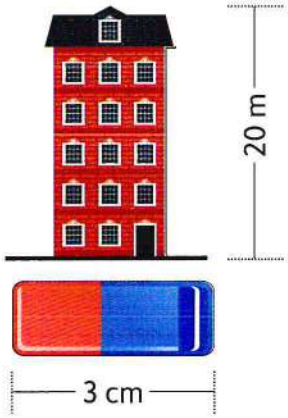
c. The number of all children in all is 90. ( )

Place a smiley face

Lessons 4 to 6

- Measuring lengths in centimeter
- Measuring lengths in meter
- Measuring lengths in millimeter

Learn 1 Length units (meter, centimeter and millimeter)



Meter (m) :

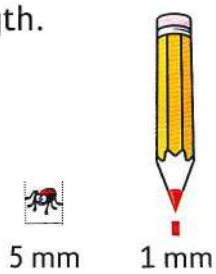
Used to measure distances and longer lengths as : buildings and buses.

Centimeter (cm) :

A centimeter (cm) is a small standard unit of measuring length, used to measure the length of small objects as : pencils, books and erasers.

Millimeter (mm) :

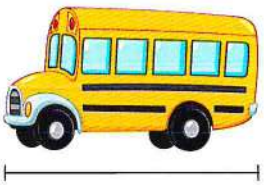
- A millimeter (mm) is a very small standard unit of measuring length. It is used to measure the length of a very small object as the length of an insect.
- A millimeter is about the width of the point of the end of your pencil.



Check

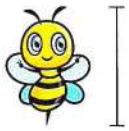
Ring the estimating length.

80 **cm** 80 **m**



6 **mm** 6 **m**

13 **cm** 8 **mm**



10 **cm** 10 **mm**

50 **mm** 50 **cm**

30 **cm** 30 **m**

Notes for parents

- Ask your child to find something at home is about 5 cm in length, width or height, and another something is about 1 m
- Ask your child to find objects at home he/she can measure it in millimeter.

Learn 2 Converting length units

There are 100 centimeters in 1 meter

1 m = 100 cm

Example :

- 2 m = 200 cm
- 5 m = 500 cm
- 8 m = 800 cm

When moving from meters to centimeters, the number gets two zeros on the end.

There are 10 millimeters in 1 centimeter

1 cm = 10 mm

Example :

- 2 cm = 20 mm
- 4 cm = 40 mm
- 19 cm = 190 mm

When moving from centimeters to millimeters, the number gets a zero on the end.

Example 1

Complete.

a. 6 m = _____ cm

b. 9 m = _____ cm

c. 5 cm = _____ mm

d. 28 cm = _____ mm

e. _____ m = 700 cm

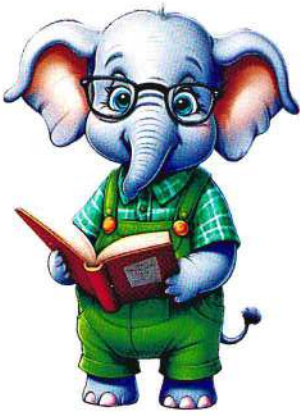
f. _____ cm = 120 mm

g. 2 m + 5 m = _____ + _____ = _____ cm

h. 6 m + 30 cm = _____ + _____ = _____ cm

i. 30 cm + 10 mm = _____ + _____ = _____ mm

j. 60 cm + 20 cm = _____ + _____ = _____ mm



Solution

a. 600

b. 900

c. 50

d. 280

e. 7

f. 12

g. 200 cm + 500 cm = 700 cm

h. 600 cm + 30 cm = 630 cm

i. 300 mm + 10 mm = 310 mm

j. 600 mm + 200 mm = 800 mm

- Later in this year, your child will understand that when moving from centimeters to millimeters he/she can multiply by 10.

Example 2

Compare, write ">, = or <".

a. 9 cm ☐ 9 mm

b. 50 mm ☐ 5 cm

c. 20 cm ☐ 200 mm

d. 80 cm ☐ 90 mm

e. 3 m + 15 cm ☐ 315 cm

f. 7 cm + 5 mm ☐ 705 mm

Solution

a. 9 cm ↓ 90 mm [>] 9 mm

b. 50 mm [=] 5 cm ↓ 50 mm

c. 20 cm ↓ 200 mm [=] 200 mm

d. 80 cm ↓ 800 mm [>] 90 mm

e. 3 m + 15 cm ↓ 300 + 15 = 315 cm [=] 315 mm

f. 7 cm + 5 mm ↓ 70 + 5 = 75 mm [<] 705 mm

Check

Complete.

a. 3 m = _____ cm

b. 8 cm = _____ mm

c. 10 cm = _____ mm

d. _____ m = 400 cm

e. _____ cm = 400 mm

f. _____ cm = 250 mm

g. 40 cm + 20 mm = _____ + _____ = _____ mm

h. 207 cm = _____ m + _____ cm

Notes for parents

- Let your child remember that to move from centimeter to millimeters he/she put 0 at the end of the number and to move from meter to centimeter he/she put two 0's at the end of the number.

Learn 3 How to use a ruler to measure the length of any object

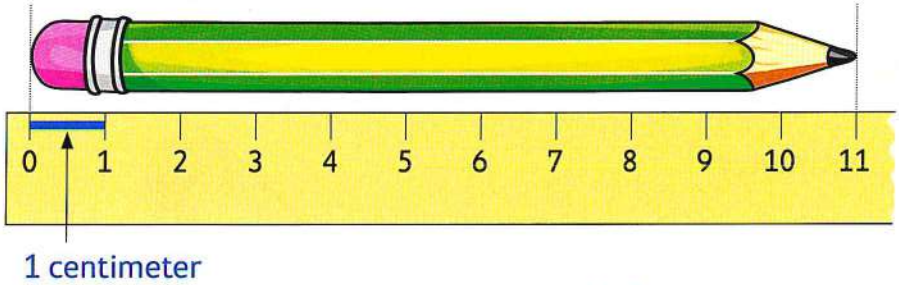
Step 1

Line up one end of the pencil with the zero mark on the ruler.

Step 2

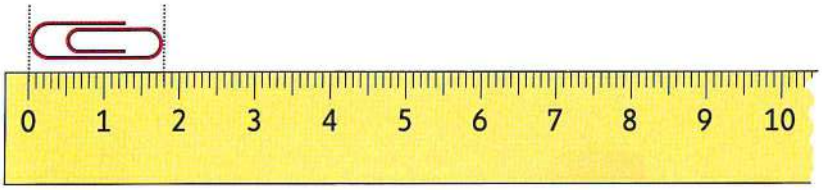
Find the centimeter mark on the ruler that is at the other end of the pencil.

- **What is the length of the pencil in centimeters ?**

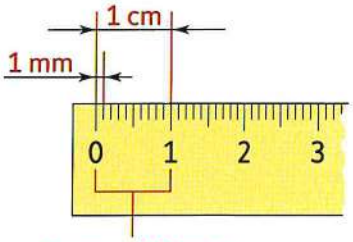


The length of the pencil is 11 cm

- **What is the length of the paper clip in millimeters ?**

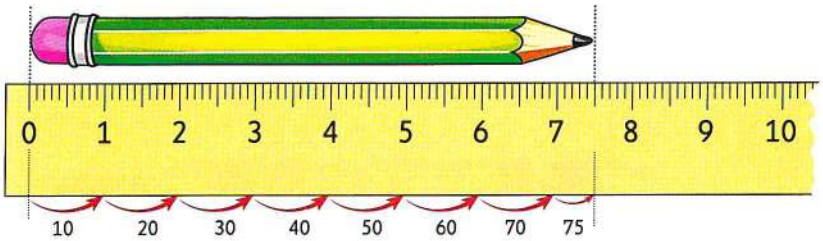


The paper clip is 18 millimeter.

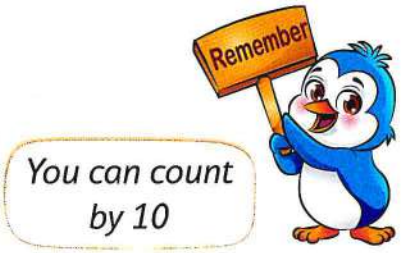


1 cm = 10 mm

- **What is the length of the pencil in millimeters ?**



The pencil is 75 millimeter.

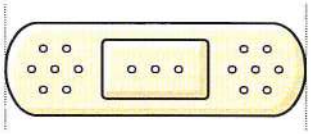


• Ask your child to measure the lengths of his/her coloring pencils then arrange them from the shortest to the longest.

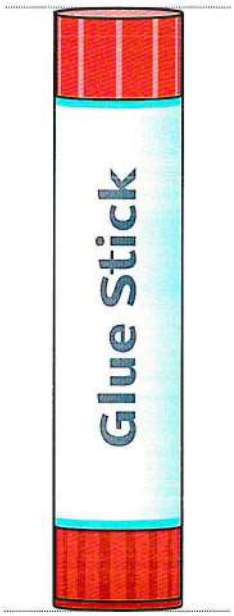
Check

Measure the length of each object. Circle the longest one and tick (✓) the shortest one.

_____ centimeter

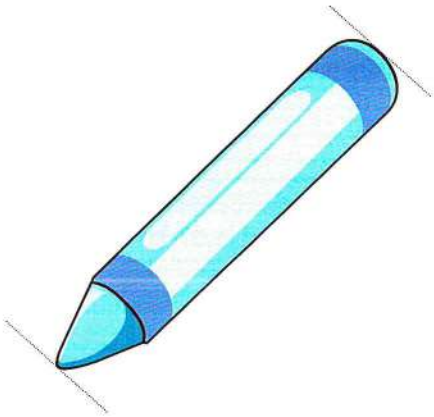


_____ centimeter

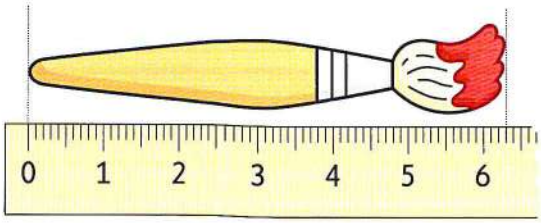


_____ centimeter

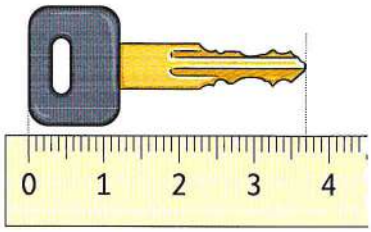
_____ centimeter



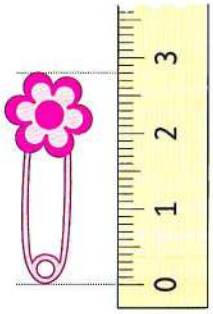
_____ centimeter



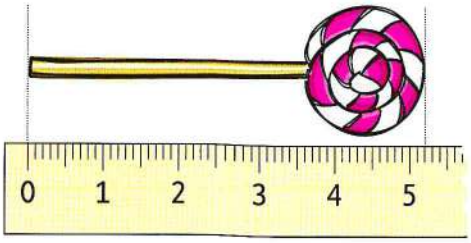
_____ millimeter



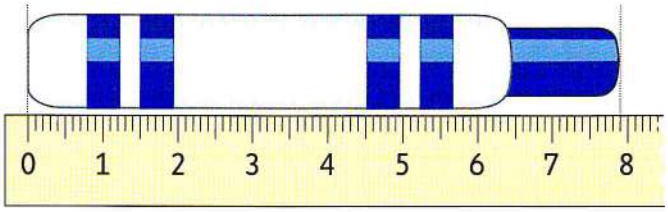
_____ millimeter



_____ millimeter



_____ millimeter



_____ millimeter

Notes for parents

- Give your child 4 strings and ask him/her to use a ruler to measure their lengths, then put them in order from the longest to the shortest.

Exercise 4

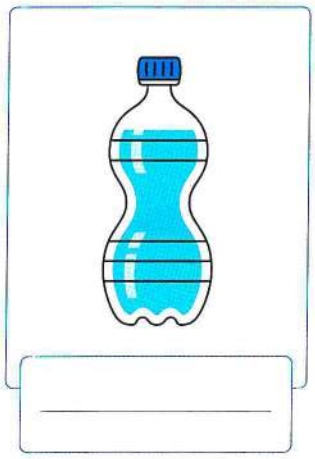
On Lessons 4 to 6

- Measuring lengths in centimeter
- Measuring lengths in meter
- Measuring lengths in millimeter

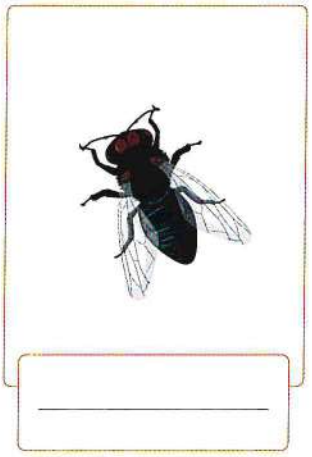
From the school book

1 Write the suitable unit (meter or centimeter or millimeter) to measure each object.

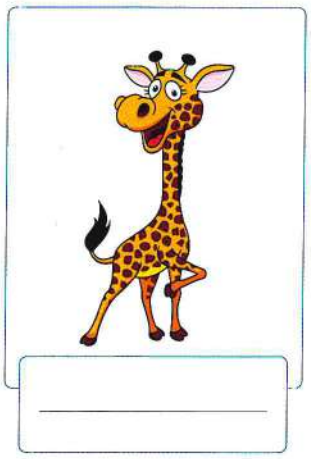
a.



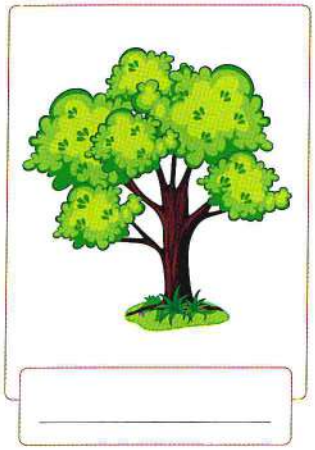
b.



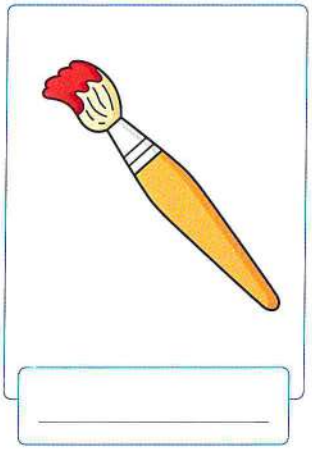
c.



d.



e.



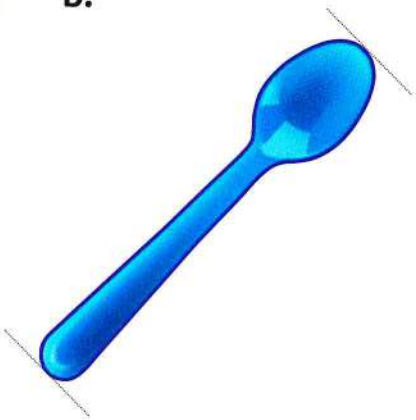
f.

2 Use the ruler to measure the length of each of the following.

a.

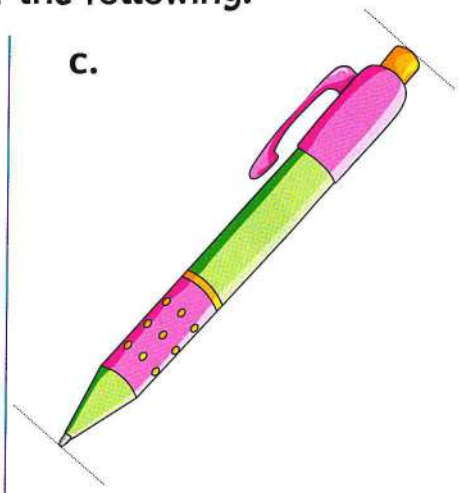
_____ centimeter

b.



_____ centimeter

c.



_____ centimeter

d.

_____ millimeter

e.

_____ centimeter

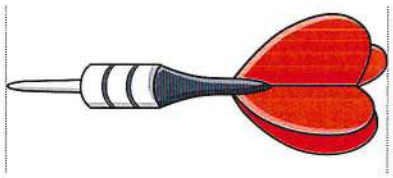
f.

_____ millimeter

g.

_____ millimeter

h.



_____ millimeter

i.

_____ centimeter

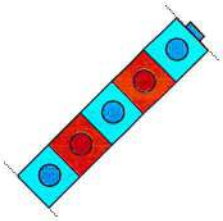
j.

_____ centimeter

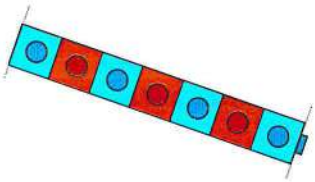
k.

_____ centimeter

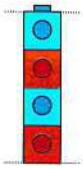
3 **Measure the length of each stripe and write its length, then arrange from the longest to the shortest.**



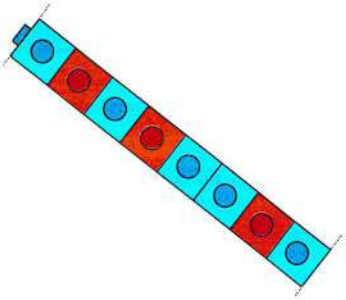
_____ centimeter



_____ centimeter



_____ centimeter



_____ centimeter

The order is : _____ , _____ , _____ , _____

4 Estimate and match.

a about 2 cm

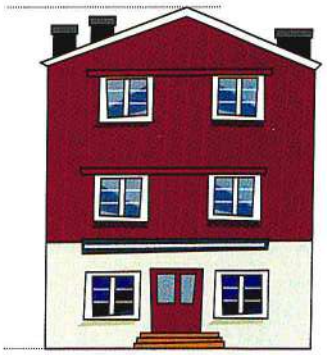
b about 10 m

c about 2 m

d about 10 cm

1

2

3 

4

5 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. The length of a bus is about 5 cm ( )

b. The length of your book is about 30 cm ( )

c. The length of an insect is about 3 m ( )

d. The length of your pen is about 15 cm ( )

e. Millimeter is a suitable unit to measure the length of large distances. ( )

6 Choose the correct answer.

a. 3 cm = _____ mm (3 or 30 or 300)

b. 24 cm = _____ mm (240 or 40 or 200)

c. 70 mm = _____ cm (70 or 700 or 7)

d. 500 mm = _____ cm (50 or 5 or 55)

e. 5 m = _____ cm (5 or 50 or 500)

f. 200 cm = _____ m (2 or 20 or 200)

g. _____ cm = 60 mm (600 or 6 or 60)

h. _____ mm = 7 cm (7 or 70 or 700)

7 Complete.

a. 7 cm = _____ mm

b. 3 cm = _____ mm

c. 4 m = _____ cm

d. 8 m = _____ cm

e. 18 cm = _____ mm

f. 50 cm = _____ mm

g. _____ m = 500 cm

h. 300 cm = _____ m

i. _____ cm = 40 mm

j. 200 mm = _____ cm

k. 10 cm = _____ mm

l. 10 mm = _____ cm

m. 2 cm + 5 cm = _____ mm

n. 4 cm + 2 cm = _____ mm

o. 5 m + 3 m = _____ cm

p. 4 m + 2 m = _____ cm

q. 70 mm + 10 mm = _____ cm

r. 20 mm + 70 mm = _____ cm

s. 350 cm = _____ m + _____ cm

t. 75 mm = _____ cm and _____ mm

8 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. 1 m = 100 cm ( )

b. 90 mm = 9 cm ( )

c. 30 cm = 300 mm ( )

d. 500 cm = 50 m ( )

e. 1 cm and 2 mm = 12 mm ( )

f. 2 m + 6 m = 800 mm ( )

9 Complete using "> , = or <".

a. 5 m ☐ 5 cm

b. 20 mm ☐ 2 cm

c. 40 mm ☐ 9 cm

d. 7 cm ☐ 20 mm

e. 6 cm ☐ 6 mm

f. 20 cm ☐ 200 mm

g. 9 mm ☐ 9 m

h. 1 m ☐ 100 cm

i. 1 cm ☐ 100 mm

j. 20 mm ☐ 200 cm

k. 600 mm ☐ 6 cm

l. 30 mm + 20 mm ☐ 50 cm

m. 3 cm and 3 mm ☐ 303 mm

n. 56 mm ☐ 50 cm + 6 mm

Challenge

10 Ring the longest length.

90 mm 88 cm 100 mm 90 cm

11 Complete.

a. 4 cm + _____ mm = 70 mm

b. 10 mm + _____ mm = 3 cm

c. 90 mm – _____ mm = 2 cm

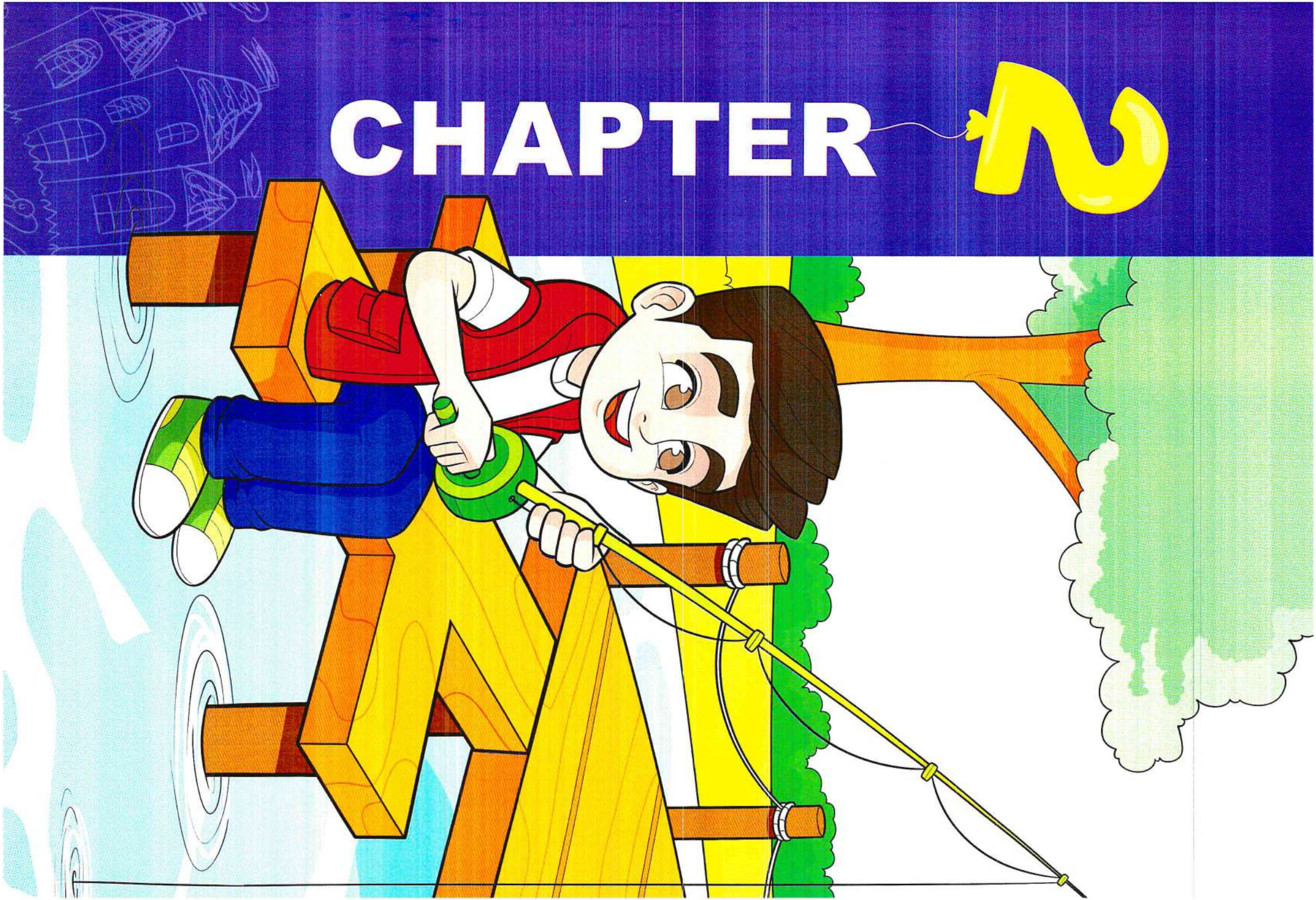
d. 8 cm – _____ cm = 20 mm

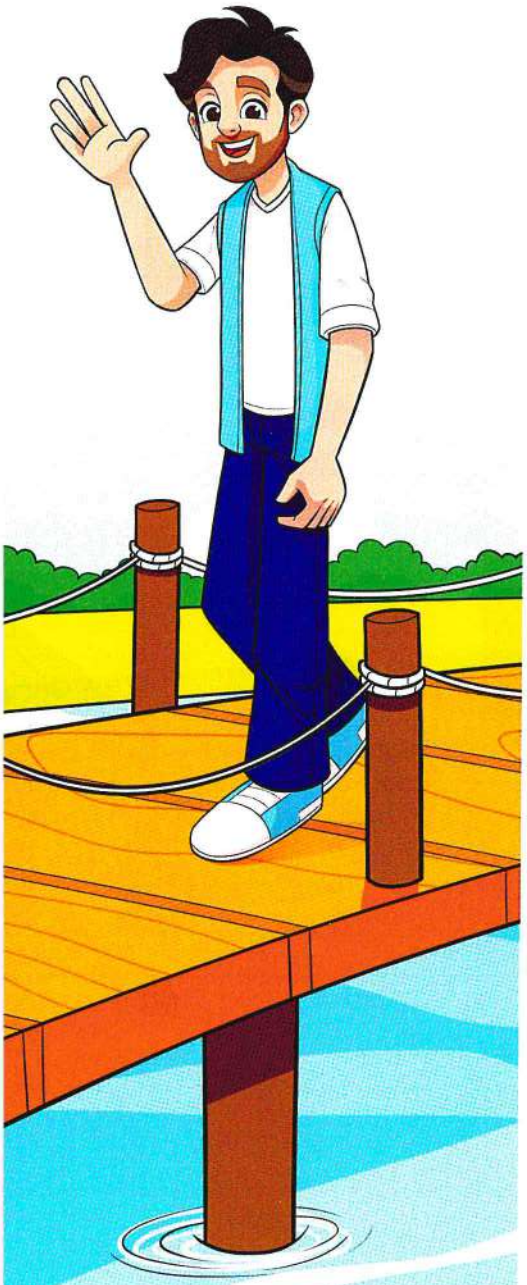
e. 5 m – _____ cm = 300 cm

f. _____ m + 40 cm = 540 cm

Place a smiley face

CHAPTER 2





Outcomes of chapter two :

At the end of chapter two, your child will be able to:

▶ **Lessons 1 & 2 :**

- **Thousands**
- **More of Thousands**
- Explain how the value of a digit can change based on its place value.
- Apply strategic thinking to construct a four-digit number with a high value.
- Read and write numbers up to the Thousands place in standard form.
- Read and write numbers up to the Thousands place in expanded form.
- Create visual models of numerical value.
- Compare numbers using symbols.

▶ **Lessons 3 & 4 :**

- **Ten Thousands - Hundred Thousands**
- **Numbers in different forms**
- Read and write numbers up to the Hundred Thousands place.
- Compare and order numbers up to the Hundred Thousands place.
- Skip count by 2s, 3s, 5s, or 10s.
- Read and write numbers up to the Hundred Thousands place in standard form.
- Read and write numbers up to the Hundred Thousands place in expanded form.
- Order a series of numbers up to the Hundred Thousands place.

▶ **Lesson 5 :**

- **Arrays**
- Use a variety of strategies to calculate the total number of items in an array.
- Solve repeated addition problems.

▶ **Lesson 6 :**

- **Multiplication**
- Compare arrays to equal groups.
- Explain how repeated addition and multiplication equations are related.
- Explain products of whole numbers.
- Compare two products using greater than, less than, and equal to symbols.

▶ **Lesson 7 :**

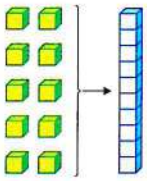
- **Commutative property in multiplication**
- Solve multiplication problems using arrays.
- Investigate the Commutative Property of Multiplication using arrays.
- Create arrays to model the Commutative Property of Multiplication.
- Explain multiplication and the Commutative Property of Multiplication.

Lessons 1 & 2

• Thousands
• More of Thousands

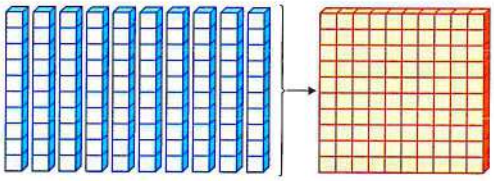
Learn 1 Exploring thousands

One



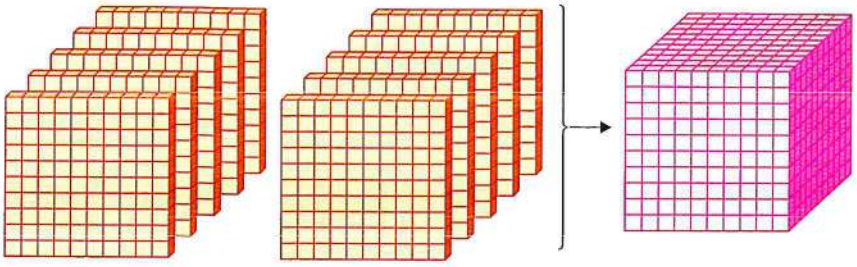
Ten

10 ones = 10



One hundred

10 tens = 100



One thousand

10 hundreds = 100 tens = 1,000

Math tip

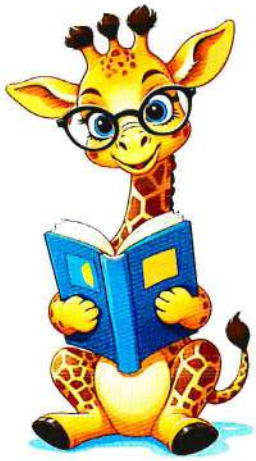
A comma (,) is used to separate the thousands and the hundreds.

Generally :

- 2,000 (two thousands) = 20 hundreds = 200 tens.
- 3,000 (three thousands) = 30 hundreds = 300 tens.

Remarks

- 9 is the greatest 1-digit number → 9 + 1 = **10**
  10 is the smallest 2-digit number
- 99 is the greatest 2-digit number → 99 + 1 = **100**
  100 is the smallest 3-digit number
- 999 is the greatest 3-digit number → 999 + 1 = **1,000**
  1,000 is the smallest 4-digit number



Notes for parents

• Let your child know another way to find one thousand is adding one to 999 ones (999 + 1 = 1,000).

Learn 2 The place value

- The value of each digit in any number depends on its place in this number.

Example : Notice the value of each digit in the number 2,439

2,439

2 is in the thousands place	4 is in the hundreds place	3 is in the tens place	9 is in the ones place
Its value is 2,000	Its value is 400	Its value is 30	Its value is 9

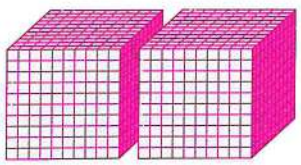
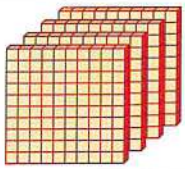
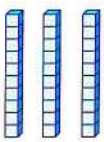
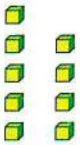
How do you write and read 4-digit numbers ?

- **Place value chart :**

2,439

Thousands	Hundreds	Tens	Ones
2	4	3	9
2,000	400	30	9

- **Place value mat :**

Thousands	Hundreds	Tens	Ones
			
2	4	3	9

Math tip

The expanded form is adding the value of each digit in the number

- **Standard form :** 2, 4 3 9
- **Expanded form :** 2,000 + 400 + 30 + 9
- **Word form :** Two thousand, four hundred thirty-nine

• Help your child use the expanded form as a way to read the number for example : (2,000 + 600 + 30 + 4) is read as two thousand, six hundred thirty-four.

Example 1

Write the place value and the value of the colored digit.

	Place value	Value		Place value	Value
a. 5,839			b. 7,282		
c. 2,106			d. 5,018		

Solution

	Place value	Value		Place value	Value
a.	Thousands	5,000	b.	Tens	80
c.	Ones	6	d.	Hundreds	0

Example 2

Write each of the following in standard form.

a. 4,000 + 500 + 60 + 7 = _____

b. 7,000 + 400 + 8 = _____

c. 50 + 9 + 6,000 = _____

d. 8,000 + 60 = _____

e. Three thousand, five hundred thirteen = _____

f. 9 thousands, 5 hundreds and 8 ones = _____

Solution

a. 4,567

b. 7,408

c. 6,059

d. 8,060

e. 3,513

f. 9,508

Example 3

Complete.

a. 5,000 = _____ thousands

b. 7,000 = _____ hundreds

c. 8,000 = _____ tens

d. 40 hundreds = _____ thousands

e. 900 tens = _____ hundreds

f. _____ = 500 tens

Notes for parents

• Ask your child to choose any number from this page and write it in another way.

Solution

a. 5	**b.** 70	**c.** 800
d. 4	**e.** 90	**f.** 5,000

Check

1. Choose the correct answer.

a. The value of the digit 4 in the number 5,430 is _____

A. 4 **B.** 40 **C.** 400 **D.** 4,000

b. The place value of the digit 3 in the number 3,506 is _____

A. Ones **B.** Tens **C.** Hundreds **D.** Thousands

c. The value of the digit 0 in the number 9,502 is _____

A. 0 **B.** 10 **C.** 100 **D.** Tens

d. 7,000 + 500 + 2 = _____

A. 752 **B.** 7,250 **C.** 7,502 **D.** 7,520

e. 8 thousands, 6 tens and 3 ones = _____

A. 863 **B.** 8,063 **C.** 8,603 **D.** 8,630

f. Three thousand, six hundred seven = _____

A. 367 **B.** 3,067 **C.** 3,607 **D.** 3,670

2. Complete.

a. 3,000 = _____ thousands

b. 2,000 = _____ tens

c. 4 thousands = _____ tens

d. _____ = 6 thousands

e. 1,000 = _____ ones

f. 600 tens = _____ hundreds

g. _____ = 700 tens

h. _____ = 8,000 ones

i. 20 hundreds = _____ thousands

j. _____ hundreds = 3 thousands

• Let your child remember that : the value of each digit in any number depends on its place in this number.

Learn 3 Comparing and ordering 4-digit numbers

• How do you compare 4-digit numbers ?

When comparing numbers, the number which has more number of digits is the greater.

Compare 4,593 and 176

- 4,593 has more digits than 176

So, 4,593 is greater than 176

4,593 > 176

Compare 3,462 and 3,489

- 3,462 and 3,489 have the same number of digits, so :

First : Compare the thousands digits	**Second :** Compare the hundreds digits	**Third :** Compare the tens digits
3, 4 6 2	3, 4 6 2	3, 4 6 2
3, 4 8 9	3, 4 8 9	3, 4 8 9
The digits are the same	The digits are the same	6 < 8

So, 3,462 is smaller than 3,489

3,462 < 3,489

• How to create the greatest and the least 4-digit number ?

The digits are 4 , 5 , 9 and 1

To create the greatest 4-digit number from given digits, arrange the digits from greatest to least.

The order is : 9 5 4 1

So, the greatest number is : **9,541**

To create the least 4-digit number from given digits, arrange the digits from least to greatest.

The order is : 1 4 5 9

So, the least number is : **1,459**

Hint :

Do not put the 0 digit in the highest place value. It will be 3-digit number.

For example :
- The greatest 4-digit number formed from 6 , 7 , 0 , 1 is **7,610**
- The least 4-digit number formed from 6 , 7 , 0 , 1 is **1,067**

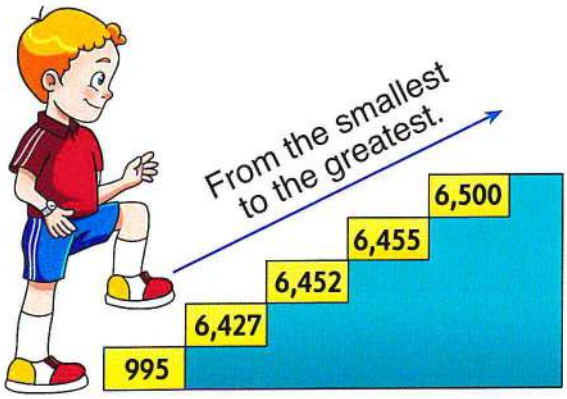
Notes for parents
- Ask your child to tell you a number greater than 4,321 and another number less than 8,765.
- Ask your child to explore the greatest 4-digit number. (he/she should answer : 9,999).

Ordering numbers

ASCENDING

Ascending order is ordering numbers from the smallest to the greatest.

- **For example :**

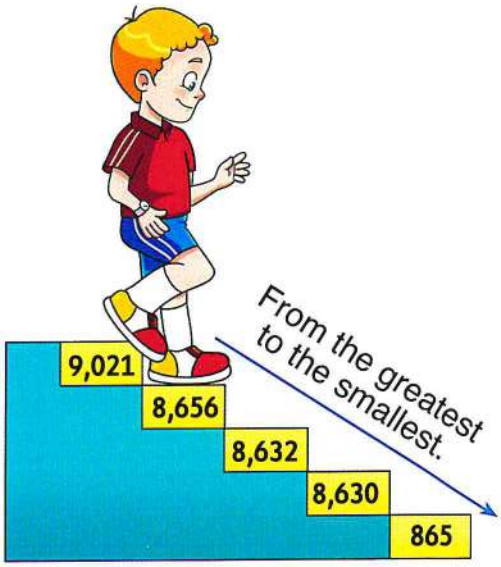


995 , 6,427 , 6,452 , 6,455 and 6,500 are arranged in **an ascending order**.

DESCENDING

Descending order is ordering numbers from the greatest to the smallest.

- **For example :**



9,021 , 8,656 , 8,632 , 8,630 and 865 are arranged in **a descending order**.

Check

1. Compare, write "> , < or =".

a. 3,251 ◯ 3,251

b. 7,365 ◯ 7,356

c. 2,800 ◯ 999

d. 30 hundreds ◯ 3,000

2. Write the greatest and the smallest number formed from the digits : 7 , 2 , 5 and 1

- **The greatest :** _____
- **The smallest :** _____

3. Arrange the following numbers in an ascending order.

7,351 3,751 1,753 5,173 → _____ , _____ , _____ , _____

4. Arrange the following numbers in a descending order.

1,111 999 1,000 1,023 → _____ , _____ , _____ , _____

• Help your child know that : 4-digit number is greater than 3-digit number.

Exercise 5

On Lessons 1 & 2

- **Thousands**
- **More of Thousands**

From the school book

1 Complete the table.

	Number	Thousands	Hundreds	Tens	Ones
a.	5,839				
b.	7,256				
c.	2,103				
d.	4,360				
e.	5,018				
f.	918				

2 Circle the value of the red digit.

a. **3,791**
3,000 300 30 3

b. **4,182**
4,000 400 40 4

c. **5,129**
9,000 900 90 9

d. **8,073**
7,000 700 70 7

e. **1,034**
0 10 100 1,000

f. **7,107**
1 10 100 1,000

g. **7,360**
6,000 600 60 6

h. **3,333**
3,000 300 30 3

3 Write the place value and the value of the colored digit.

	place value	value		place value	value
a. 3,791			b. 6,129		
c. 4,182			d. 8,063		
e. 5,629			f. 1,034		
g. 7,107			h. 2,560		
i. 5,431			j. 9,287		
k. 3,030			l. 2,222		

4 Write the following numbers in expanded form.

a. 3,284 = _____ + _____ + _____ + _____

b. 5,123 = _____ + _____ + _____ + _____

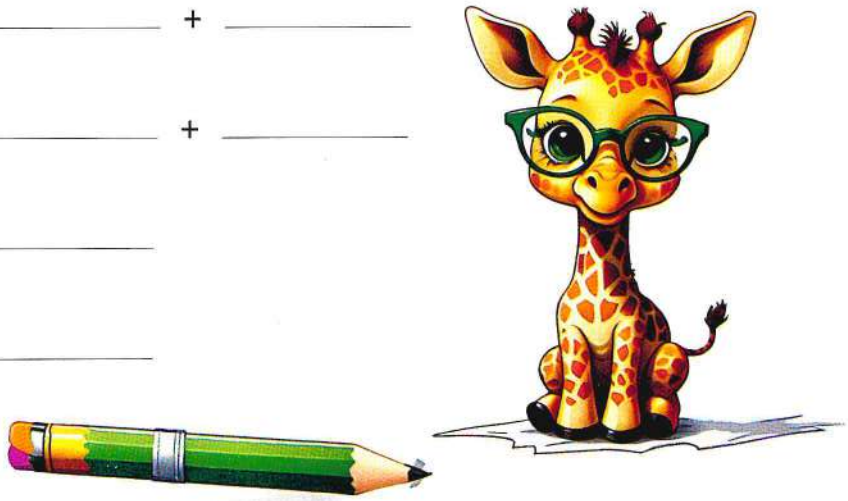
c. 9,856 = _____ + _____ + _____ + _____

d. 8,032 = _____ + _____ + _____

e. 7,504 = _____ + _____ + _____

f. 6,800 = _____ + _____

g. 4,001 = _____ + _____



5 Write in standard form.

a. 2,000 + 600 + 30 + 4 = _____

b. 1 + 70 + 800 + 6,000 = _____

c. 4,000 + 500 + 90 + 3 = _____

d. 3,000 + 300 + 9 = _____

e. 20 + 1 + 6,000 = _____

f. 10 + 100 + 1,000 = _____

g. 600 + 7,000 + 50 = _____

h. 5 + 9,000 = _____

i. 1,000 + 900 = _____

j. 5,000 + 40 = _____

6 Write in expanded form and standard form.

a. 8 thousands , 4 hundreds , 9 tens and 1 one

b. 2 thousands , 1 hundred , 7 tens and 5 ones

c. 7 ones , 5 hundreds , 3 thousands and 2 tens

d. 9 thousands , 7 hundreds and 2 ones

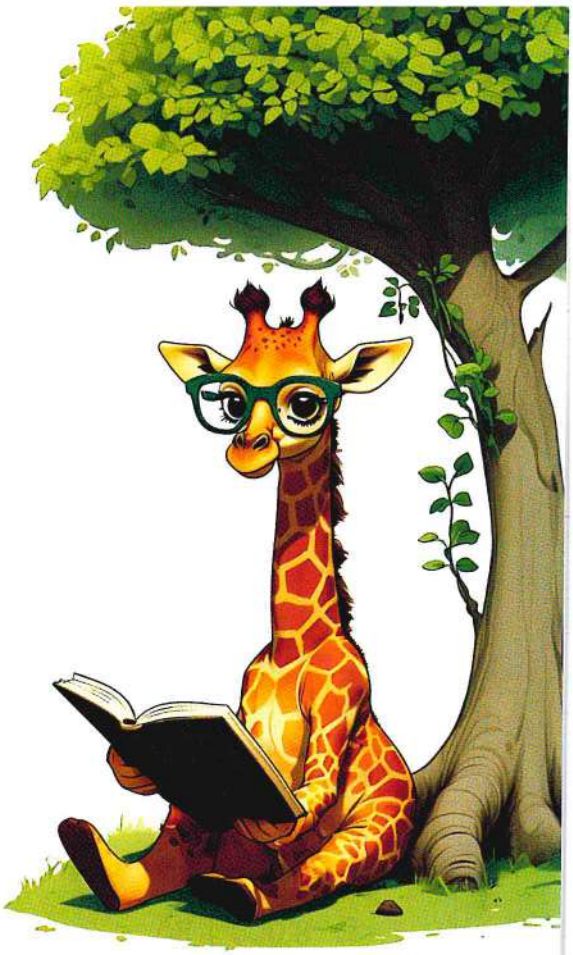
e. 1 thousand and 48 ones

f. 5 hundreds, 4 thousands and 3 ones

g. 7 hundreds, 5 thousands and 16 ones

h. 4 tens, 3 thousands and 6 ones

7 Write the missing numbers.



a. 2,753 = _____ + 700 + 50 + 3

b. _____ = 3,000 + 3

c. 4,925 = 4,000 + 900 + _____ + _____

d. 6,040 = 6,000 + _____

e. 9,462 = 9,000 + _____ + 60 + 2

f. 7,777 = 7 + _____ + _____ + _____

g. 3,781 = 1 + _____ + 700 + _____

h. 4,506 = _____ + 500 + _____

i. 7,649 = _____ thousands + _____ hundreds + _____ tens + _____ ones

j. 5,302 = _____ thousands + _____ hundreds + _____ tens + _____ ones

8 Write the following in standard form.

a. Five thousand, three hundred seventy-eight

b. Two thousand, five hundred thirty-one

c. Nine thousand, four hundred six

d. One thousand, fifty-four

e. Three thousand, two

f. Four thousand, forty

g. Two thousand, seventeen

h. Eight thousand, five hundred

9 Write the following in the word form.

a. 3,751 _____

b. 4,004 _____

c. 7,200 _____

d. 6,510 _____

e. 5,000 + 300 + 10 + 7 _____

f. 8,000 + 80 _____

g. 5 thousands , 3 hundreds and 26 ones _____

h. 2 thousands and 2 tens _____

10 Complete.

a. 6,000 = _____ thousands.

b. 2,000 = _____ hundreds.

c. 7,000 = _____ tens.

d. 80 hundreds = _____ thousands.

e. 500 tens = _____ thousands.

f. 900 tens = _____ hundreds.

g. 30 hundreds = _____ tens.

h. _____ tens = 8 hundreds.

i. _____ = 4,000 ones.

j. _____ = 800 tens.

k. 4 thousands = _____ hundreds.

l. 8 thousands = _____ tens.

11 Compare, write "> , < or =".

a. 3,291 ◯ 3,591

b. 📖 8,903 ◯ 9,038

c. 📖 6,534 ◯ 6,544

d. 📖 1,342 ◯ 1,302

e. 711 ◯ 7,110

f. 2,691 ◯ 948

g. 📖 2,345 ◯ 2,344

h. 📖 7,878 ◯ 7,787

i. 8,651 ◯ 1 + 50 + 600 + 8,000

j. 3,000 + 300 + 30 ◯ 3,333

k. 9,205 ◯ Nine thousand, two hundred fifty.

l. 5,168 ◯ 5 thousands + 1 hundred + 6 tens + 7 ones

m. 9 thousands , 2 hundreds and 5 ones ◯ 9,000 + 200 + 50

n. 6 thousands ◯ 60 hundreds

o. 90 tens ◯ 9 hundreds

12 Write the greatest and the least 4-digit number from the given digits.

	Digits	Greatest 4-digt number	Least 4-digit number
a.	4, 3 , 9 , 8	_____	_____
b.	5 , 2 , 3 , 4	_____	_____
c.	5 , 1 , 6 , 8	_____	_____
d.	4 , 4 , 7 , 5	_____	_____
e.	3 , 0 , 2 , 7	_____	_____
f.	0 , 3 , 4 , 9	_____	_____

13 Write the numbers in an ascending order.

a. 6,987 6,978 7,896 987

The order is : _____ , _____ , _____ , _____

b. 4,782 3,521 9,835 5,336

The order is : _____ , _____ , _____ , _____

c. 1,281 993 4,621 6,170 2,990

The order is : _____ , _____ , _____ , _____ , _____

d. 4,279 7,942 784 4,278 7,249

The order is : _____ , _____ , _____ , _____ , _____

14 Write the numbers in a descending order.

a. 5,300 1,050 1,500 3,805

The order is : _____ , _____ , _____ , _____

b. 7,321 941 6,541 9,541

The order is : _____ , _____ , _____ , _____

c. 456 1,938 2,605 5,719 3,010

The order is : _____ , _____ , _____ , _____ , _____

d. 5,441 6,204 2,917 708 3,009

The order is : _____ , _____ , _____ , _____ , _____

15 **Complete.**

a. The place value of the digit 6 in the number 5,632 is _____

b. The value of the digit 9 in the number 9,304 is _____

c. The greatest 4-digit number is _____

d. The smallest 4-digit number is _____

e. The greatest 4-different digit number is _____

f. The smallest 4-different digit number is _____

g. The smallest 4-same digit number is _____

h. The greatest 4-digit even number is _____

16 **Put (✓) to the correct statement or (✗) to the incorrect statement.**

a. 30 hundreds = 3 thousands ( )

b. The place value of the digit 7 in the number 7,469 is Thousands ( )

c. The value of the digit 5 in the number 5,367 is 500 ( )

d. 9,000 + 40 + 500 + 6 = 9,456 ( )

e. 7,465 > 7,456 ( )

f. 2,409 = 2 thousands, 4 hundreds and 9 tens ( )

g. The smallest 4-digit number formed from 9 , 6 , 0 and 3 is 369 ( )

Challenge

17 By using the digits 5 , 3 , 2 and 4
Form 3-different numbers each of them is greater than 5,000

_____

18 What does 23 hundreds and 19 ones equal ? _____

Place a smiley face

Lessons 3 & 4

• Ten Thousands - Hundred Thousands
• Numbers in different forms

Learn 5-digit and 6-digit numbers

• How do you write and read 5-digit numbers in different forms ?

- Place value chart :

53,167

Ten thousands	Thousands	Hundreds	Tens	Ones	Place value
5	3	1	6	7	
50,000	3,000	100	60	7	Value

- Standard form : 5 3, 1 6 7
- Expanded form : 50,000 + 3,000 + 100 + 60 + 7
- Word form : Fifty-three thousand, one hundred sixty-seven

• How do you write and read 6-digit numbers in different forms ?

- Place value chart :

253,167

Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones	Place value
2	5	3	1	6	7	
200,000	50,000	3,000	100	60	7	Value

- Standard form : 2 5 3, 1 6 7
- Expanded form : 200,000 + 50,000 + 3,000 + 100 + 60 + 7
- Word form : Two hundred fifty-three thousand, one hundred sixty-seven

Notes for parents

- Let your child discover what is the result of adding. 1 to 9,999 (10,000) and adding 1 to 99,999 (100,000).

Example 1

Write the place value and the value of the colored digit.

	Number	Place value	Value
a.	34,761	_____	_____
b.	259,613	_____	_____
c.	84,179	_____	_____
d.	256,341	_____	_____

Solution

a. Ten thousands / 30,000

b. Hundred thousands / 200,000

c. Thousands / 4,000

d. Hundreds / 300

Example 2

Write each of the following in standard form.

a. 300,000 + 50,000 + 4,000 + 900 + 80 + 1 = _____

b. 70,000 + 7,000 + 7 = _____

c. 300 + 1,000 + 40,000 + 60 + 700,000 = _____

d. Two hundred sixty-five thousand , one hundred seventeen = _____

e. Forty-one thousand , five hundred six = _____

Solution

a. 354,981 | b. 77,007 | c. 741,360

d. 265,117 | e. 41,506

Check

Complete.

a. The place value of the digit 4 in the number 341,698 is _____

b. The value of the digit 7 in the number 716,409 is _____

c. The value of the digit 2 in the number 24,690 is _____

d. The place value of the digit 5 in the number 576,321 is _____

e. 900 + 30,000 + 600,000 + 4 = _____

f. 7 ten thousands + 4 thousands + 6 hundreds + 2 ones = _____

- Ask your child to discover the greatest and the least 5-digit numbers (his/her answer should be : 99,999 & 10,000)
- Also the greatest and the least 6-digit numbers (his/her answer should be : 999,999 & 100,000)

Exercise 6

On Lessons 3 & 4

- **Ten Thousands - Hundred Thousands**
- **Numbers in different forms**

From the school book

1 Circle the correct digit in the number according to its place.

a.	Ten thousands	65,810	**b.**	Hundred thousands	308,001
c.	Hundred thousands	921,348	**d.**	Hundreds	200,720
e.	Thousands	102,421	**f.**	Tens	31,065
g.	Ones	85,609	**h.**	Ten thousands	407,105

2 Circle the value of the red digit.

a. **23,250**

300,000 30,000 3,000

b. **85,142**

800,000 80,000 8,000

c. **20,057**

500 50 5

d. **33,221**

20,000 2,000 200

e. **511,980**

500,000 50,000 5,000

f. **498,107**

900,000 90,000 9,000

g. **102,421**

100,000 10,000 0

h. **371,056**

100,000 10,000 1,000

3 Write the place value and the value of the colored digit.

	place value	value		place value	value
a. 69,284			**b.** 481,206		
c. 730,460			**d.** 156,392		
e. 24,378			**f.** 40,520		
g. 320,045			**h.** 501,483		
i. 59,730			**j.** 78,029		

4 Complete.

a. The place value of the digit 5 in the number 513,627 is _____

b. The value of the digit 7 in the number 764,210 is _____

c. The place value of the digit 0 in the number 904,362 is _____

d. The value of the digit 0 in the number 904,362 is _____

e. The digit which represents the ten thousand in the number 356,217 is _____

f. The digit which represents the hundred thousand in the number 598,631 is _____

g. If the value of a digit is 500,000, then its place value is _____

h. If the value of a digit is 30,000, then its place value is _____

5 Write the following in standard form.

a. Thirty-one thousand, five hundred seventy-four = _____

b. Two hundred seventy-eight thousand, six hundred twenty-one = _____

c. Three hundred eight thousand, ten = _____

d. 5 hundred thousands , 4 thousands and 3 tens = _____

e. 9 ten thousands , 7 thousands , 2 hundreds and 5 ones = _____

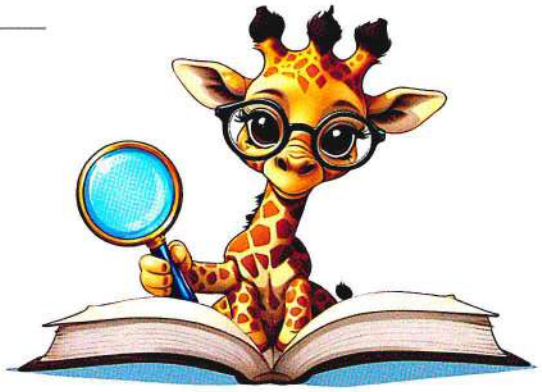
f. 3 hundred thousands + 3 ten thousands + 3 hundreds = _____

g. 30,000 + 9,000 + 400 + 10 + 5 = _____

h. 60,000 + 8,000 + 90 + 2 = _____

i. 8 + 20 + 900 + 300,000 = _____

j. 500,000 + 500 + 5 = _____



6 Write in expanded form.

a. 95,683 = _____ + _____ + _____ + _____ + _____

b. 543,876 = _____ + _____ + _____ + _____ + _____ + _____

c. 62,319 = _____ + _____ + _____ + _____ + _____

d. 762,319 = _____ + _____ + _____ + _____ + _____ + _____

e. 15,780 = _____

f. 230,045 = _____

g. 70,116 = _____

h. 812,004 = _____

i. 400,040 = _____

7 Write the missing numbers.

a. 95,683 = _____ + 5,600 + 80 + 3

b. 531,497 = _____ + 30,000 + _____ + 400 + 97

c. 78,465 = 65 + 400 + _____ + 70,000

d. 43,092 = 2 + 90 + _____ + 3,000

e. 670,341 = _____ + 70,000 + 340 + _____

f. 102,637 = _____ + _____ + 600 + 30 + 7

g. _____ = 200,000 + 10,000 + 564

h. _____ = 30,000 + 5,000 + 29

i. _____ = 25,000 + 798

j. _____ = 900,000 + 5,000 + 17

k. _____ = 16,000 + 400 + 39

8 Write the following in the word form.

a. 235,791 _____

b. 904,006 _____

c. 71,071 _____

d. 60,606 _____

e. 700,000 + 40,000 + 6,000 + 90 _____

f. 50,000 + 4,000 + 300 + 20 + 9 _____

g. 7 hundred thousands, 9 thousands and 5 tens _____

h. 8 ten thousands, 6 hundreds and 36 ones _____

9 Match.

a.	The value of the digit 5 in the number 351,267	Hundred thousands
b.	The place value of the digit 5 in the number 576,423	50,000
c.	The place value of the digit 5 in the number 157,630	500,000
d.	The value of the digit 5 in the number 521,679	Ten thousands
e.	5,000 + 500,000 + 5 + 50	550,550
f.	500,000 + 50,000 + 500 + 50	505,055

Math tip

Counting the number of digit helps to compare numbers.

10 Compare, write "> , < or =".

a. 48,047 ◯ 49,123

b. 175,362 ◯ 175,290

c. 322,647 ◯ 322,467

d. 321,054 ◯ 83,266

e. 526,540 ◯ 526,550

f. 50,320 ◯ 50,410

g. 15,000 ◯ 150 hundreds

h. 7,500 hundreds ◯ 750 thousands

i. 99,999 ◯ one hundred thousand

j. 301,013 ◯ Three hundred one thousand , thirteen

k. 275,600 ◯ 200,000 + 70,000 + 5,000 + 6

l. 111,111 ◯ 99,999

m. 555,301 ◯ 555,310

n. 99,999 + 1 ◯ 100,000

o. 30 hundreds ◯ 30 thousands

p. The greatest number formed from 5 digits ◯ The smallest number formed from 6 digits

q. 72,000 + 345 ◯ 70,000 + 2,300 + 45

Do not put the 0 digit in the highest place value.

11 Rearrange the digits to get the greatest and the least number.

a. 7 3 6 2 8

greatest ☐ least ☐

b. 6 2 3 8 1 4

greatest ☐ least ☐

c. 7 2 1 0 9

greatest ☐ least ☐

d. 2 0 3 5 6 1

greatest ☐ least ☐

e. 0 7 8 0 4

greatest ☐ least ☐

f. 5 9 7 0 1 3

greatest ☐ least ☐

g. 2 4 7 5 1 9

greatest ☐ least ☐

h. 1 9 0 7 1 3

greatest ☐ least ☐

12 **Write the numbers in order from least to greatest.**

a. 11,493 132,567 9,372 98,505

The order is : _____ , _____ , _____ , _____

b. 125,762 27,652 152,567 27,256

The order is : _____ , _____ , _____ , _____

c. 833,322 833,400 8,339 83,987 83,986

The order is : _____ , _____ , _____ , _____ , _____

d. 965,852 932,599 965,478 93,259 96,547

The order is : _____ , _____ , _____ , _____ , _____

e. 24,571 724,072 4,720 24,270 724,172

The order is : _____ , _____ , _____ , _____ , _____

f. 999,999 111,111 100,000 102,345 987,654

The order is : _____ , _____ , _____ , _____ , _____

---

13 **Write the numbers in order from greatest to least.**

a. 103,002 3,201 23,001 21,300

The order is : _____ , _____ , _____ , _____

b. 11,112 101,559 59,002 21,052

The order is : _____ , _____ , _____ , _____

c. 81,236 618,765 38,472 637,961 773,550

The order is : _____ , _____ , _____ , _____ , _____

d. 914,231 | 12,605 | 9,380 | 12,606 | 914,230

The order is : _____ , _____ , _____ , _____ , _____

e. 500,000 | 99,999 | 100,000 | 500,007 | 3,428

The order is : _____ , _____ , _____ , _____ , _____

14 **Put (✓) to the correct statement or (✗) to the incorrect statement.**

a. The greatest number formed from the digits 2 , 7 , 5 , 9 , 0 and 6 is 907,652 ( )

b. The smallest number formed from the digits 2 , 4 , 6 , 5 and 1 is 12,456 ( )

c. The greatest 6-digit number is 999,999 ( )

d. The smallest 6-different digit number is 123,456 ( )

e. The greatest 5-different digit number is 987,654 ( )

f. The smallest 5-digit number is 11,111 ( )

g. The place value of the circled digit in the number 75,621 is Hundred thousands ( )

h. The value of the circled digit in the number 752,634 is 700,000 ( )

15 **Circle the numbers which is greater than 200,000**

99,999 716,012 50,214 321,000 200,100

16 **Circle the numbers which is smaller than 33,000**

111,111 200,000 20,000 13,699 9,216

Challenge

17 **Complete.**

If the place value of a digit is ten thousands, then its value has _____ zeroes.

18 **Write a number which is greater than 45,387 and having the digits :**

1 2 0 9 3

Place a smiley face

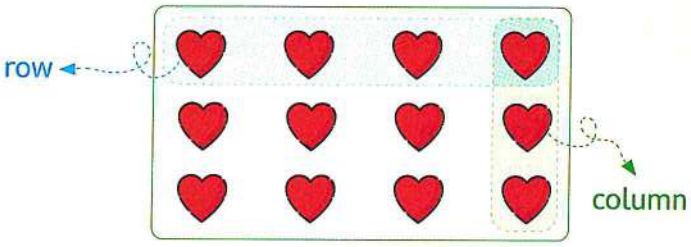
_____

Lesson 5

Arrays

Learn

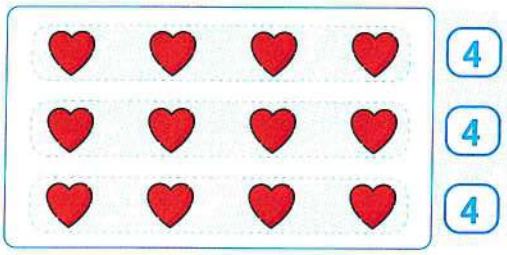
- Arrays have horizontal rows and vertical columns.
- In this array :
  - Number of rows : 3
  - Number of columns : 4

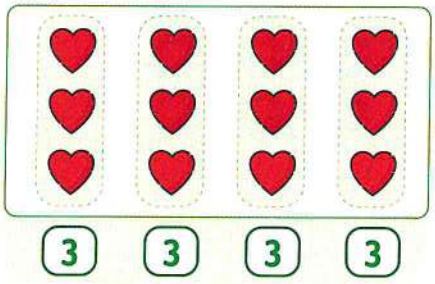


- You can write : 3 rows of 4 or 4 columns of 3

How to find the total number of objects using repeated addition?

To find the total number of objects in an array use skip counting or repeated addition.





First Skip counting to find the total number of array

- This array has 3 rows of 4 hearts.
- Skip counting by 4s three times : 4 , 8 , 12 hearts.

- This array has 4 columns of 3 hearts.
- Skip counting by 3s four times : 3 , 6 , 9 , 12 hearts.

Second Repeated addition to find the total number of array

- Number of rows = 3
- Number of hearts in each row = 4
- Total number of hearts = 4 + 4 + 4 = 12

- Number of columns = 4
- Number of hearts in each column = 3
- Total number of hearts = 3 + 3 + 3 + 3 = 12

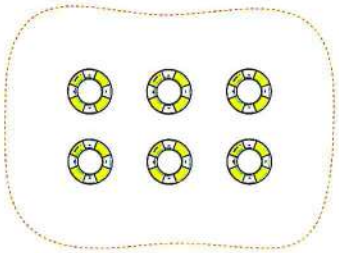
Notes for parents

• Tell your child that repeated addition and skip counting are not the only strategies to find the total.

Check

Write the repeated addition and skip counting steps to find the total of each of the following.

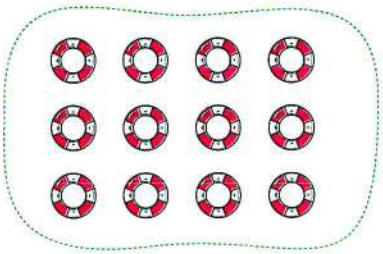
a.



Repeated addition : _____

Skip counting : _____

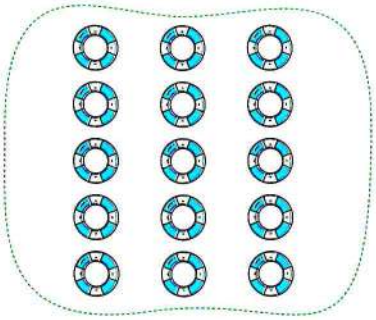
b.



Repeated addition : _____

Skip counting : _____

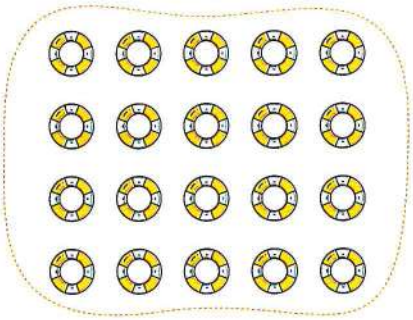
c.



Repeated addition : _____

Skip counting : _____

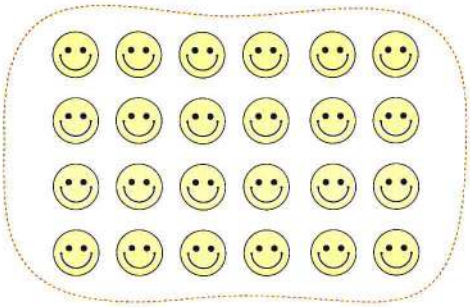
d.



Repeated addition : _____

Skip counting : _____

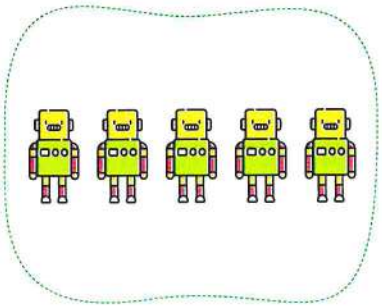
e.



Repeated addition : _____

Skip counting : _____

f.



Repeated addition : _____

Skip counting : _____

Notes for parents

- Remind your child that rows are horizontal and go across but columns are vertical and go up and down.

Exercise 7

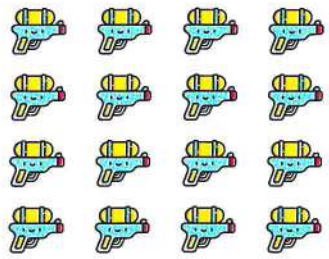
On Lesson 5

Arrays

From the school book

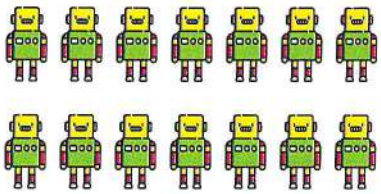
1 Complete the following.

a.



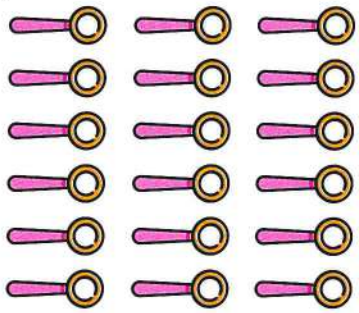
_____ rows of _____

b.



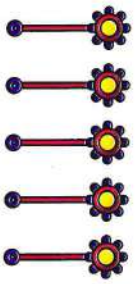
_____ rows of _____

c.



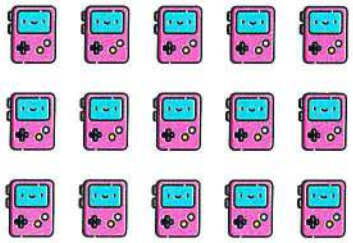
_____ rows of _____

d.



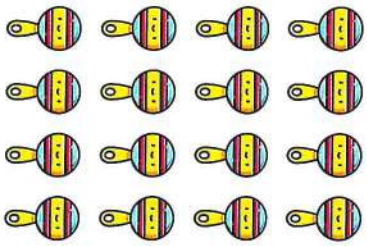
_____ column of _____

e.



_____ columns of _____

f.



_____ columns of _____

2 Create an array.

a. 2 rows of 3

b. 4 rows of 2

c. 1 row of 6

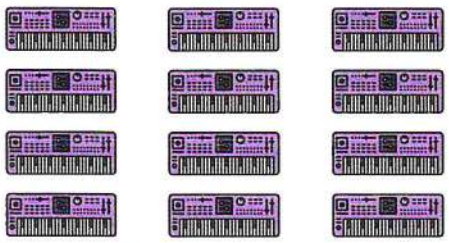
d. 1 column of 5

e. 3 columns of 4

f. 7 columns of 2

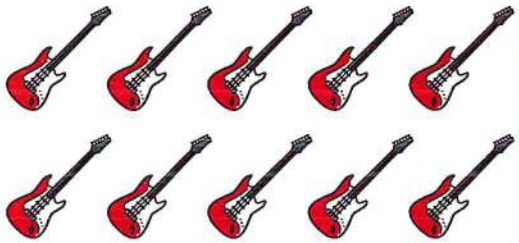
3 Find the total items of each array using skip counting strategy.

a.



The total = _____

b.

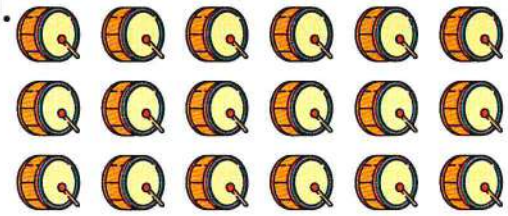


The total = _____

c.

The total = _____

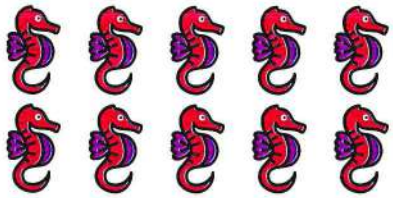
d.



The total = _____

4 Look at each array. Complete.

a.

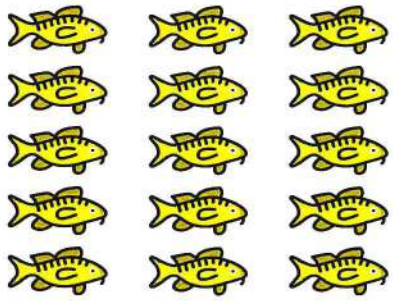


_____ equal rows _____ in each row _____ in all.

b.

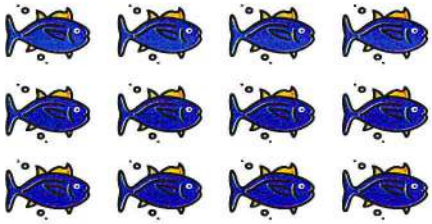
_____ equal columns _____ in each column _____ in all.

c.



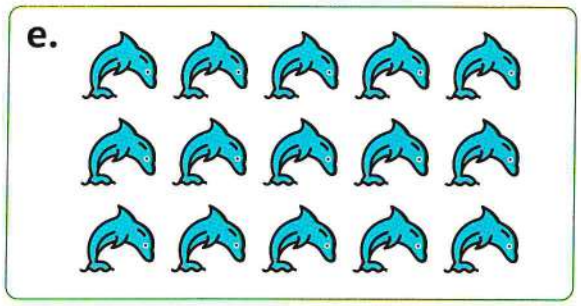
_____ equal rows _____ in each row _____ in all.

d.



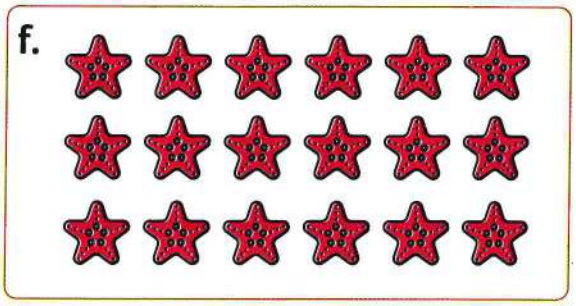
_____ equal columns _____ in each column _____ in all.

e.



_____ equal rows _____ in each row _____ in all.

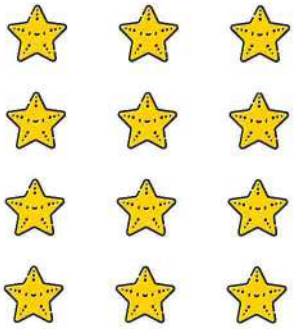
f.



_____ equal columns _____ in each column _____ in all.

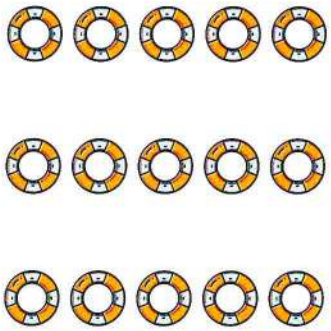
5 Complete the following.

a.



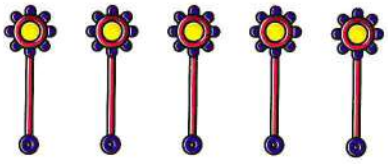
- Number of rows = _____
- Number of stars in each row = _____
- Total number of items = _____

b.



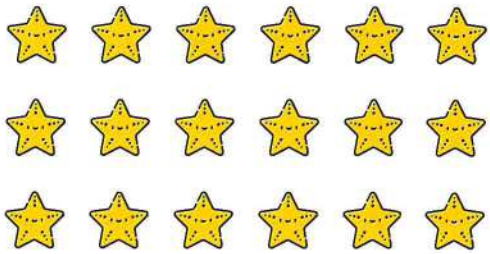
- Number of columns = _____
- Number of items in each column = _____
- Total number of items = _____

c.



- Number of rows = _____
- Number of items in each row = _____
- Total number of items = _____

d.



- Number of columns = _____
- Number of stars in each column = _____
- Total number of stars = _____

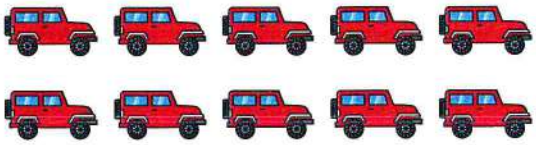
6 Write the repeated addition and skip counting steps to find the total.

a.

Repeated addition : _____

Skip counting : _____

b.



Repeated addition : _____

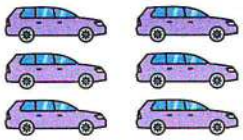
Skip counting : _____

c.

Repeated addition : _____

Skip counting : _____

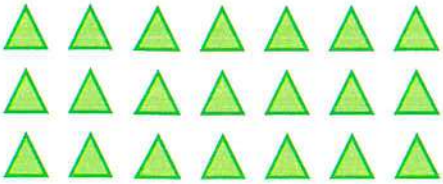
d.



Repeated addition : _____

Skip counting : _____

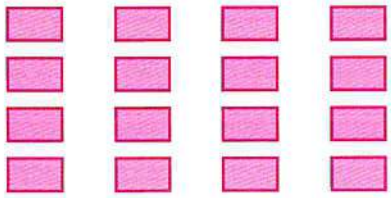
e.



Repeated addition : _____

Skip counting : _____

f.



Repeated addition : _____

Skip counting : _____

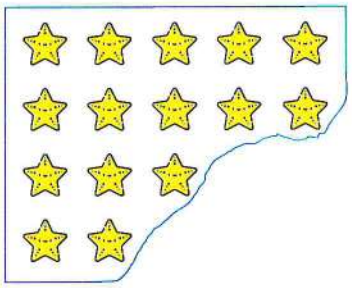
Challenge

7 Look at the opposite star array.

Some of the stars have been ripped off.

How many stars were in the original array ?

Explain your thinking using pictures, numbers, or words.



_____

_____

Place a smiley face

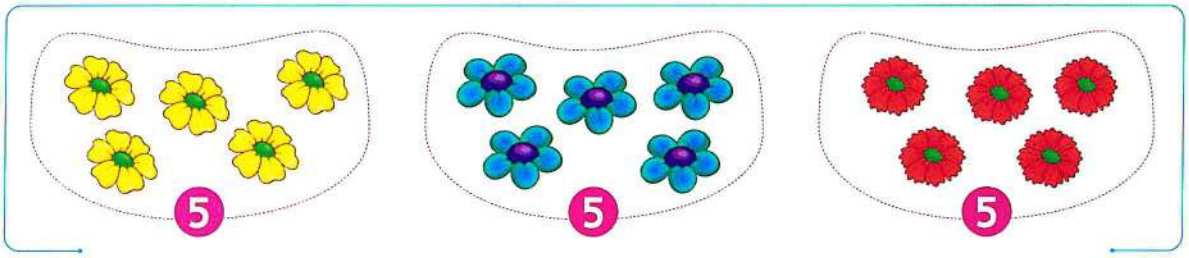
Lesson 6

Multiplication

Learn 1 Multiplication as repeated addition

Equal groups are groups that have the same number of items.

- There are 3 equal groups of 5 flowers



- You can use **repeated addition** to find the total.

5 + 5 + 5 = 15 Addition sentence

- When you put together equal groups, you can also use **multiplication**

What you write : 3 × 5 = 15 Multiplication sentence

3	×	5	15
Factor	Multiplication symbol	Factor	Product

What you say : 3 times 5 equals 15

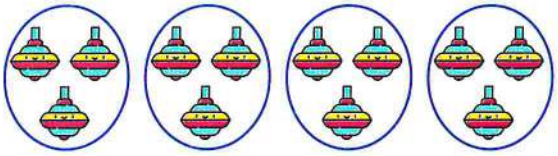
- *Factor*
  one of the numbers multiplied.
- *Product*
  the number obtained when multiplying.

Example 1

Write an addition sentence and a multiplication sentence to find the total.

a.

- Repeated addition : — + — + — = —
- Multiplication : — × — = —

b. 

- Repeated addition : — + — + — + — = —
- Multiplication : — × — = —

Notes for parents

- Use small objects. Ask your child to make 2 groups of 6. Then have your child write an addition sentence and a multiplication sentence.

Solution

a. Repeated addition : $2 + 2 + 2 = 6$

Multiplication : $3 \times 2 = 6$

b. Repeated addition : $3 + 3 + 3 + 3 = 12$

Multiplication : $4 \times 3 = 12$

Example 2

Complete.

a. $2 + 2 + 2 + 2 + 2 =$ ____ $\times 2 =$ ____

b. $5 + 5 + 5 + 5 = 4 \times$ ____ $=$ ____

c. $3 \times 7 =$ ____ $+$ ____ $+$ ____ $=$ ____

d. ____ $\times 4 = 4 + 4 + 4 + 4 + 4 =$ ____

Solution

a. $2 + 2 + 2 + 2 + 2 = 5 \times 2 = 10$

b. $5 + 5 + 5 + 5 = 4 \times 5 = 20$

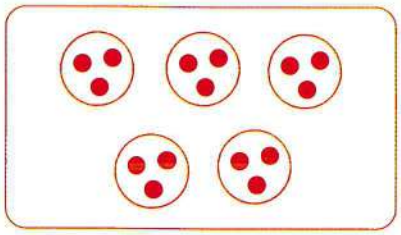
c. $3 \times 7 = 7 + 7 + 7 = 21$

d. $5 \times 4 = 4 + 4 + 4 + 4 + 4 = 20$

Check

Write an addition sentence and a multiplication sentence to find the total.

a.

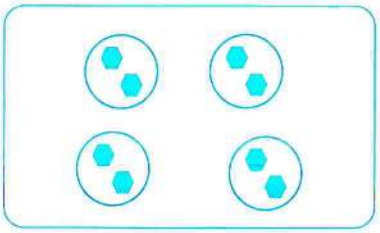


- Repeated addition :

  ____ $+$ ____ $+$ ____ $+$ ____ $+$ ____ $=$ ____

- Multiplication : ____ $\times$ ____ $=$ ____

b.



- Repeated addition :

  ____ $+$ ____ $+$ ____ $+$ ____ $=$ ____

- Multiplication : ____ $\times$ ____ $=$ ____

Notes for parents

- Ask your child to compare the addition sentence and the multiplication sentence and compare the sum and the product. They should be the same.

Learn 2 How does an array show multiplication ?

This array shows 3 rows of 4 cupcakes

3 rows

4 in each row

- To find the total number of cupcakes, you can add or multiply.

Repeated addition : 4 + 4 + 4 = 12

Multiplication : 3 × 4 = 12 → Product "Total"

4 → Number in each row

3 → Number of rows

Say : 3 times 4 equals 12

Another way

The same array shows 4 columns of 3 cupcakes

4 columns

3 in each column

- To find the total number of cupcakes, you can add or multiply.

Repeated addition : 3 + 3 + 3 + 3 = 12

Multiplication : 4 × 3 = 12 → Product "Total"

3 → Number in each column

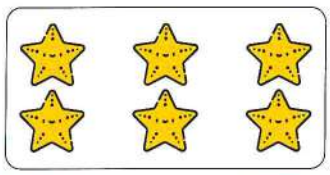
4 → Number of columns

Say : 4 times 3 equals 12

Check

Complete.

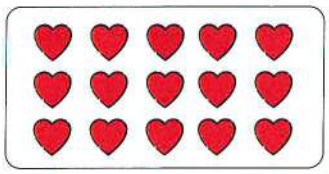
a.



___ rows of ___

___ × ___ = ___

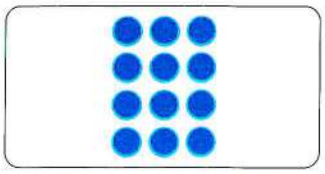
b.



___ columns of ___

___ × ___ = ___

c.



___ rows of ___

___ × ___ = ___

• Let your child use small objects to create an array of 5 rows of 3 and write the multiplication sentence.

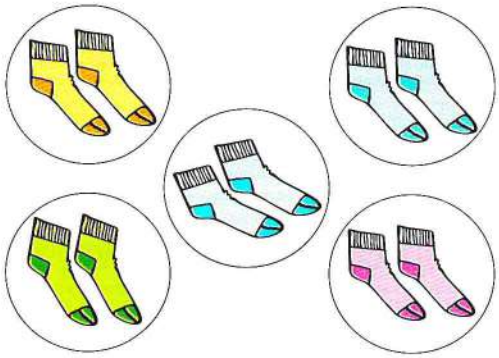
Exercise 8

On Lesson 6

Multiplication

1 Write an addition sentence and a multiplication sentence to find the total.

a.

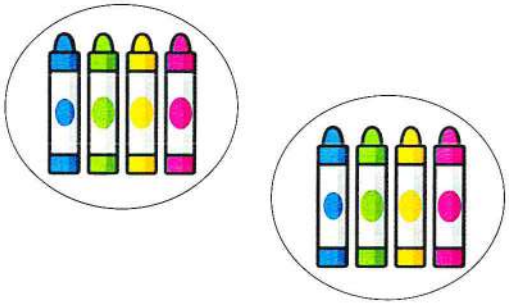


Repeated addition :

___ + ___ + ___ + ___ + ___ = ___

Multiplication : ___ × ___ = ___

b.

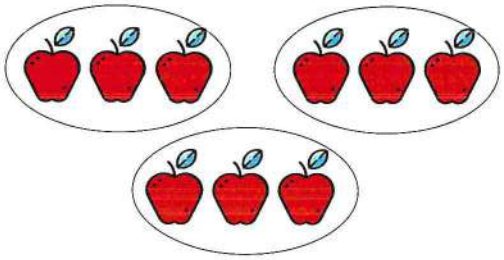


Repeated addition :

___ + ___ = ___

Multiplication : ___ × ___ = ___

c.

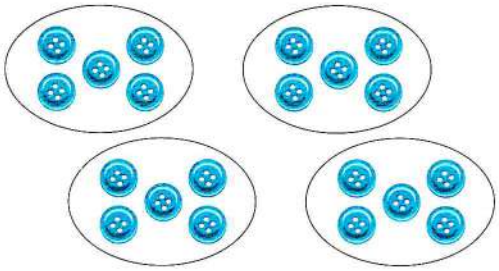


Repeated addition :

___ + ___ + ___ = ___

Multiplication : ___ × ___ = ___

d.

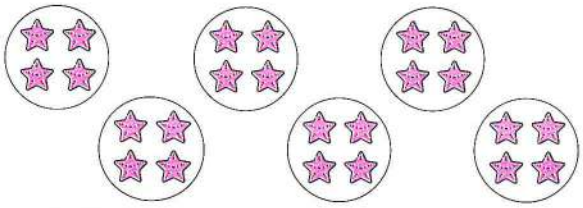


Repeated addition :

___ + ___ + ___ + ___ = ___

Multiplication : ___ × ___ = ___

e.

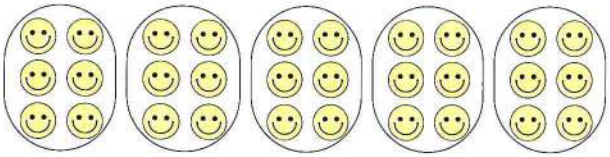


Repeated addition :

_____ = ___

Multiplication : ___ × ___ = ___

f.



Repeated addition :

_____ = ___

Multiplication : ___ × ___ = ___

2 Complete each of the following.

a.

___ rows of ___

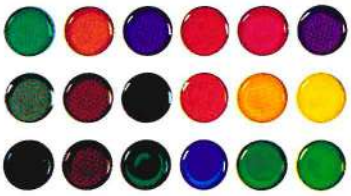
___ × ___ = ___

b.

___ rows of ___

___ × ___ = ___

c.



___ rows of ___

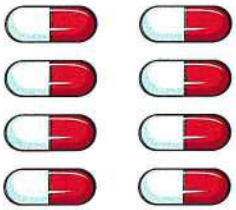
___ × ___ = ___

d.

___ columns of ___

___ × ___ = ___

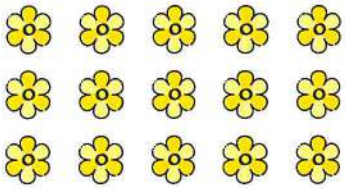
e.



___ columns of ___

___ × ___ = ___

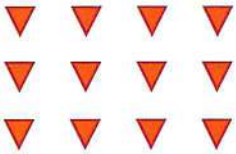
f.



___ columns of ___

___ × ___ = ___

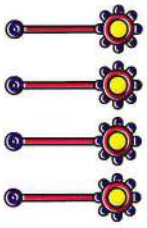
g.



___ columns of ___

___ × ___ = ___

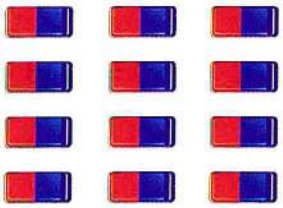
h.



___ rows of ___

___ × ___ = ___

i.



___ columns of ___

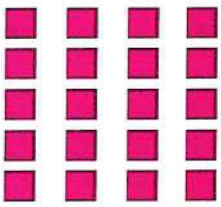
___ × ___ = ___

j.

___ rows of ___

___ × ___ = ___

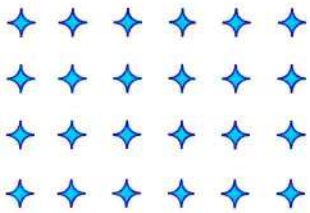
k.



___ rows of ___

___ × ___ = ___

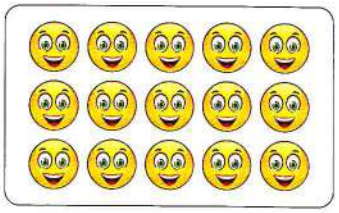
l.

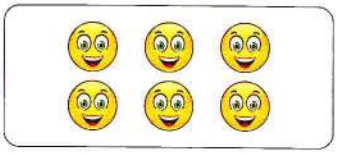


___ columns of ___

___ × ___ = ___

3 Match each array to its sentence.



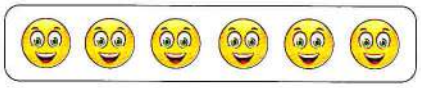


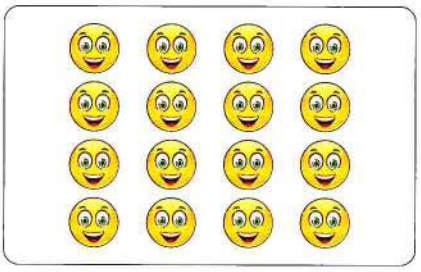
$3 + 3 = 6$

$3 \times 5 = 15$

$4 + 4 + 4 + 4 = 16$

$1 \times 6 = 6$





4 Complete.

a. $3 + 3 + 3 + 3 = \_\_ \times 3 = \_\_$

b. $7 + 7 + 7 = \_\_ \times 7 = \_\_$

c. $4 + 4 + 4 + 4 + 4 = \_\_ \times 4 = \_\_$

d. $\_\_ + \_\_ + \_\_ + \_\_ = 4 \times 5 = \_\_$

e. $6 + 6 + 6 = \_\_ \times \_\_ = \_\_$

f. $9 + 9 + 9 + 9 = \_\_ \times \_\_ = \_\_$

g. $1 + 1 + 1 + 1 + 1 + 1 = \_\_ \times \_\_ = \_\_$

h. $8 + 8 + 8 + 8 = \_\_ \times \_\_ = \_\_$

i. $4 \times 7 = \_\_ + \_\_ + \_\_ + \_\_ = \_\_$

j. $2 \times 9 = \_\_ + \_\_ = \_\_$

k. $3 \times 2 = \_\_ + \_\_ + \_\_ = \_\_$

l. $6 \times 4 = \_\_ + \_\_ + \_\_ + \_\_ = \_\_$

m. $\_\_ \times 3 = 3 + 3 + 3 + 3 + 3 + 3 = \_\_$

n. $5 \times 5 = \_\_ + \_\_ + \_\_ + \_\_ + \_\_ = \_\_$

o. $\_\_ \times 8 = 8 + 8 + 8 = \_\_$

p. $5 + 5 = 2 \times \_\_ = \_\_$

5 Choose the correct answer.

a. $3 + 3 + 3 + 3 + 3 = \_\_ \times 3$

A. 3 B. 4 C. 5 D. 6

b. 4 groups of 2 = __

A. $4 + 2$ B. 4×4 C. $2 \times 2 \times 2 \times 2$ D. 4×2

c. 2 groups of 9 = 9 + __

A. 2 B. 9 C. 18 D. $9 + 9$

d. $2 \times 3 = 3 + \_\_$

A. 0 B. 1 C. 2 D. 3

e. $7 + 7 + 7 = 3 \times \_\_$

A. 3 B. 5 C. 7 D. 9

6 Draw to model groups. Then write an addition sentence and a multiplication sentence for each.

a. 2 groups of 4

_____

_____

b. 3 groups of 2

_____

_____

c. 3 groups of 3

_____

_____

d. 4 groups of 5

_____

_____

e. 2 groups of 3

_____

_____

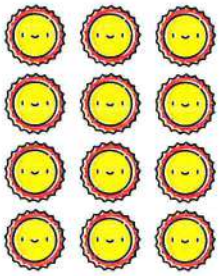
f. 5 groups of 4

_____

_____

7 Build the array as the example. Write the multiplication sentence.

Example :



4 rows of 3

$4 \times 3 = 12$

a.

5 rows of 2

____ × ____ = ☐

b.

3 rows of 6

____ × ____ = ☐

c.

5 columns of 5

____ × ____ = ☐

d.

2 columns of 8

____ × ____ = ☐

e.

4 rows of 7

____ × ____ = ☐

Place a smiley face

Lesson 7

Commutative property in multiplication

Learn 1 Commutative property of multiplication "Arrays"

Commutative property of multiplication means that :

You can multiply in any order and the product is the same.

This array is 2 rows of 3

This array is 3 rows of 2

2 rows
3 in each row

3 rows
2 in each row

Add : 3 + 3 = 6
Multiply : 2 × 3 = 6

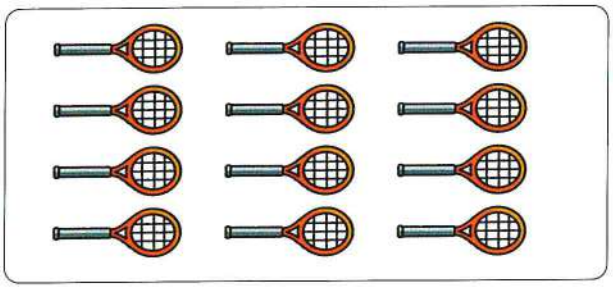
Add : 2 + 2 + 2 = 6
Multiply : 3 × 2 = 6

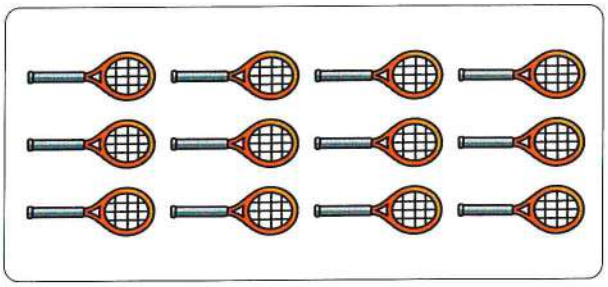
The factors can be multiplied in any order and their product is the same.

So, 2 × 3 = 3 × 2 = 6

Check

Write how many. Write the multiplication sentences.





_____ rows of _____

_____ × _____ = _____

_____ rows of _____

_____ × _____ = _____

What did you notice ? _____ × _____ = _____ × _____

Notes for parents

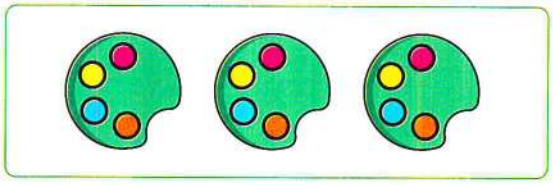
- Ask your child to use objects to show you 3 rows of 6 and 6 rows of 3 and then find how many objects in all of each.

Learn 2 Commutative property of multiplication "Equal groups"

You can multiply in any order and the product is the same.

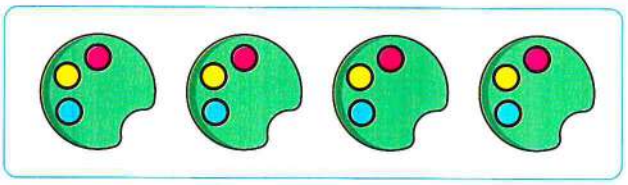
There are 3 groups of 4

There are 4 groups of 3



Add : 4 + 4 + 4 = 12

Multiply : 3 × 4 = 12



Add : 3 + 3 + 3 + 3 = 12

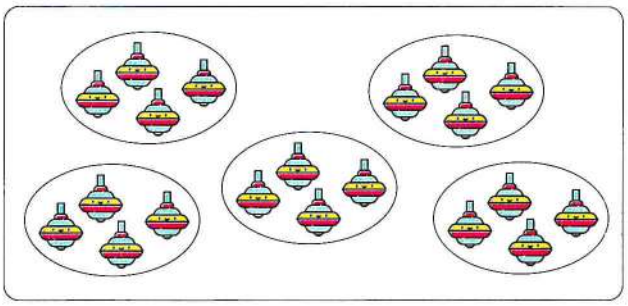
Multiply : 4 × 3 = 12

The factors can be multiplied in any order and their product is the same.

So, 3 × 4 = 4 × 3 = 12

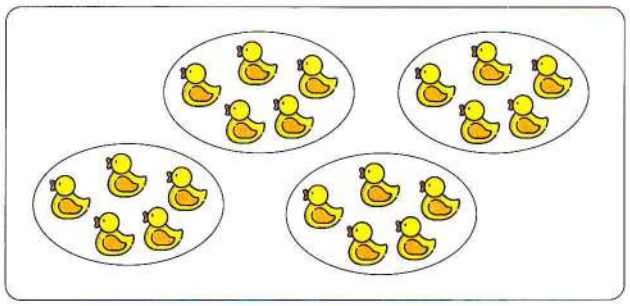
Check

Write how many. Write the multiplication sentences.



___ groups of ___

___ × ___ = ___



___ groups of ___

___ × ___ = ___

What did you notice ? ___ × ___ = ___ × ___

Notes for parents

- Ask your child to use objects to show you 2 groups of 5 and 5 groups of 2 and then find how many objects in all of each.

Exercise 9

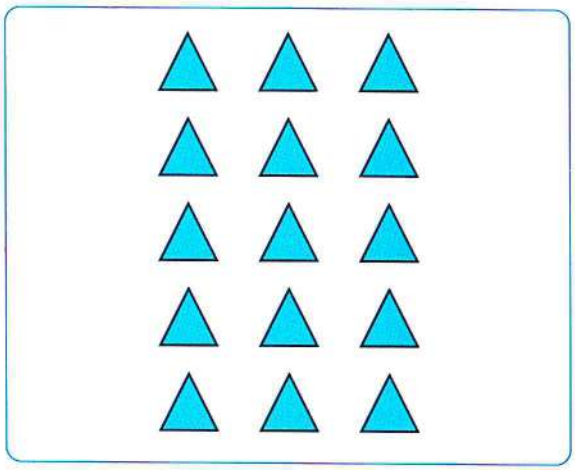
On Lesson 7

Commutative property in multiplication

From the school book

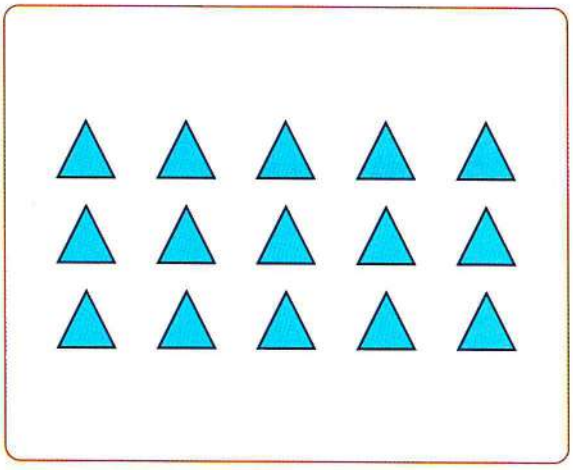
1 Complete the following.

a.



_____ rows of _____ columns

_____ × _____ = _____

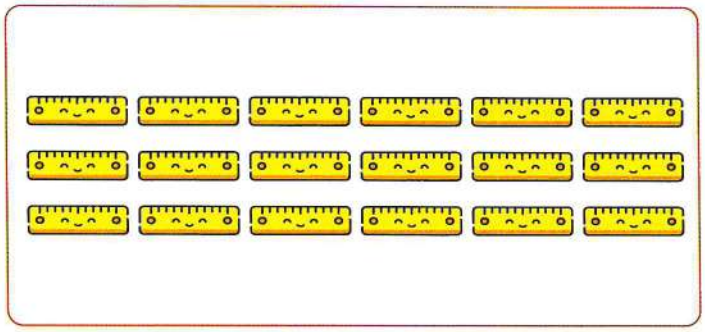


_____ rows of _____ columns

_____ × _____ = _____

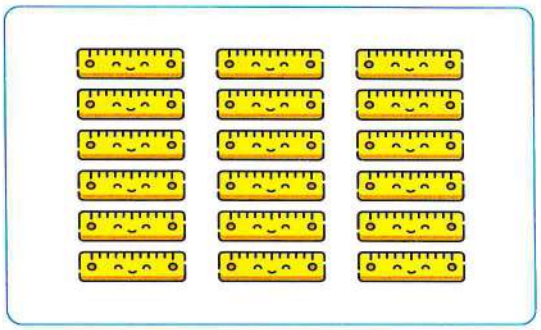
_____ × _____ = _____ × _____

b.



_____ rows of _____ columns

_____ × _____ = _____



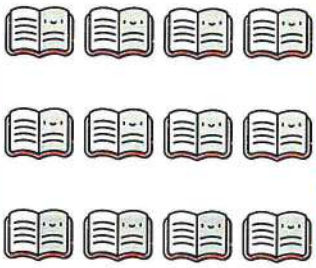
_____ rows of _____ columns

_____ × _____ = _____

_____ × _____ = _____ × _____

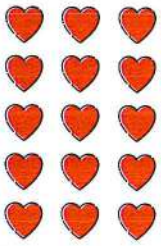
2 Write the multiplication sentence for each array. Then draw the array that shows the commutative property.

a.



b.

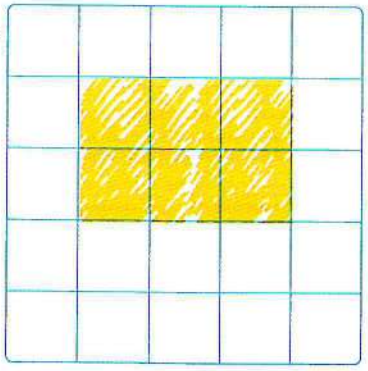
c.



d.

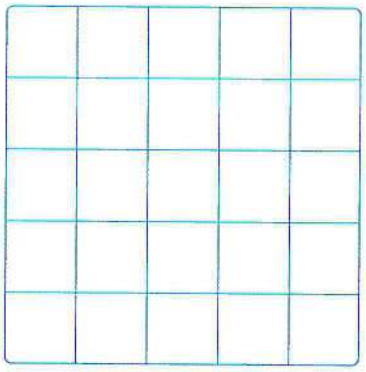
3 Draw the array on the grid according to its multiplication sentence. Write the product. The first one is done for you.

a.



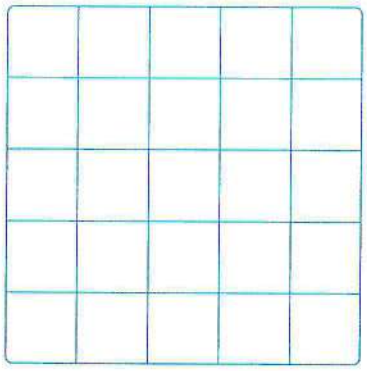
$2 \times 3 =$ 6

b.



$5 \times 2 =$ ☐

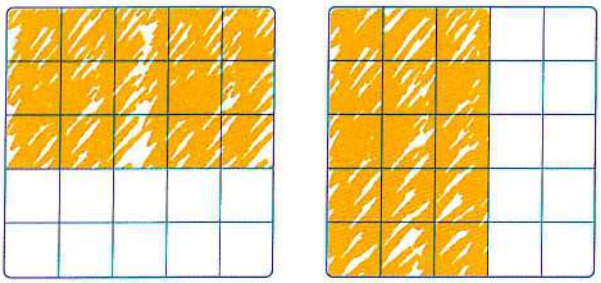
c.



$4 \times 5 =$ ☐

4 Draw the array on the grid according to its multiplications sentence. Then draw the array that shows the commutative property. Then, complete. The first one is done for you.

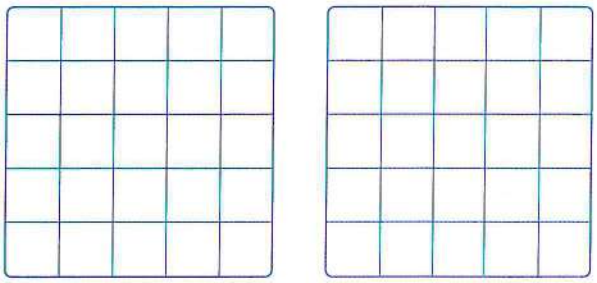
a. 3 rows of 5 | 5 rows of 3



$3 \times 5 = 15$ $\quad$ $5 \times 3 = 15$

So, $3 \times 5 = 5 \times 3 = 15$

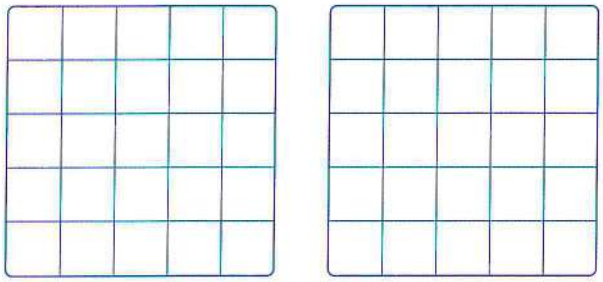
b. 2 rows of 4 | 4 rows of 2



$2 \times 4 = \square$ $\quad$ $4 \times 2 = \square$

So, $\square \times \square = \square \times \square = \square$

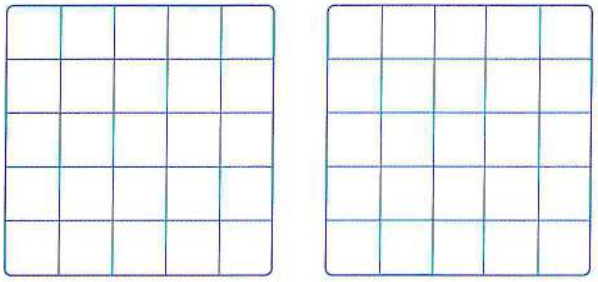
c. 3 rows of 4 | 4 rows of 3



$3 \times 4 = \square$ $\quad$ $4 \times 3 = \square$

So, $\square \times \square = \square \times \square = \square$

d. 1 row of 5 | 5 rows of 1

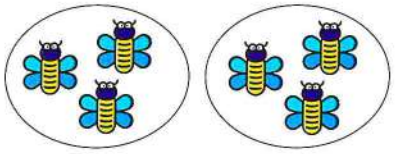


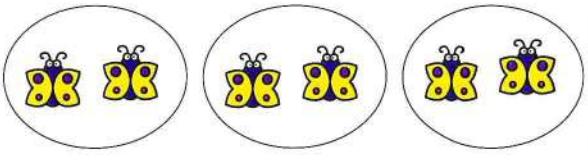
$1 \times 5 = \square$ $\quad$ $5 \times 1 = \square$

So, $\square \times \square = \square \times \square = \square$

5 Complete the following.

a.





_____ groups of _____

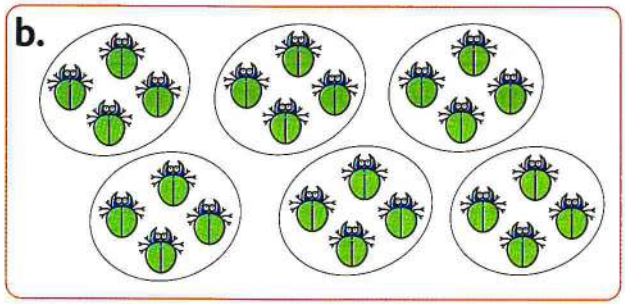
$\square \times \square = \square$

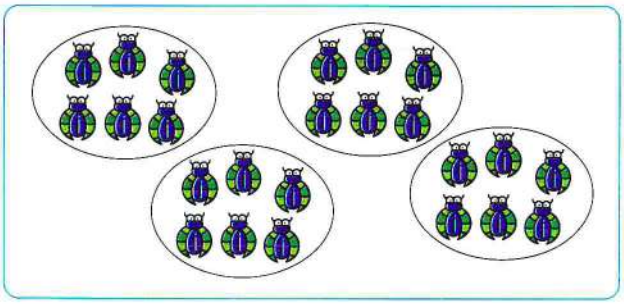
_____ groups of _____

$\square \times \square = \square$

$\square \times \square = \square \times \square$

b.





_____ groups of _____

_____ × _____ = _____

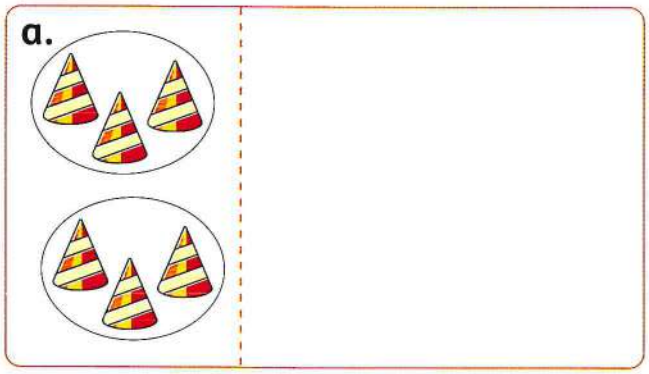
_____ groups of _____

_____ × _____ = _____

_____ × _____ = _____ × _____

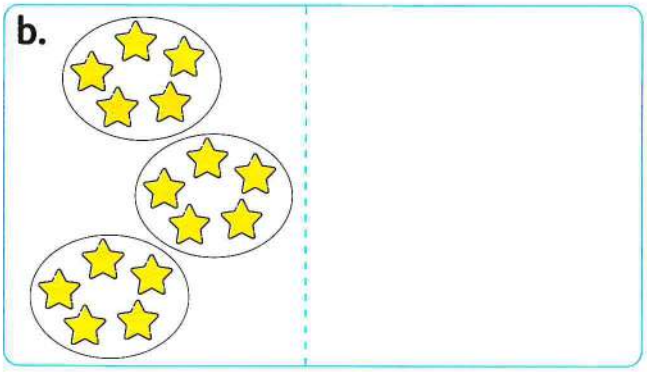
6 Write the multiplication sentence for each equal groups. Then draw the equal groups that shows the commutative property.

a.



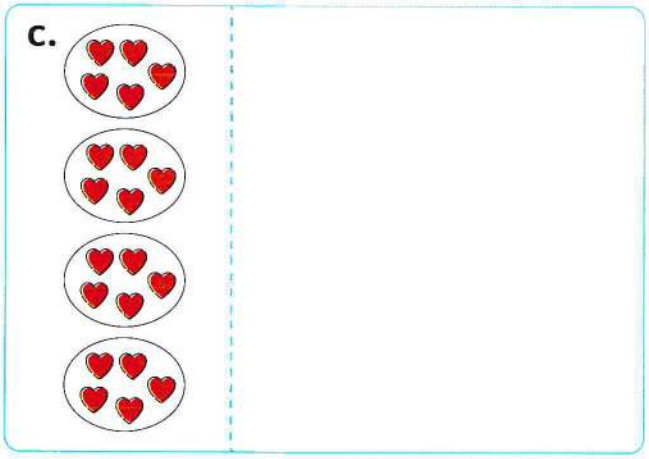
_____ × _____ = _____ × _____

b.



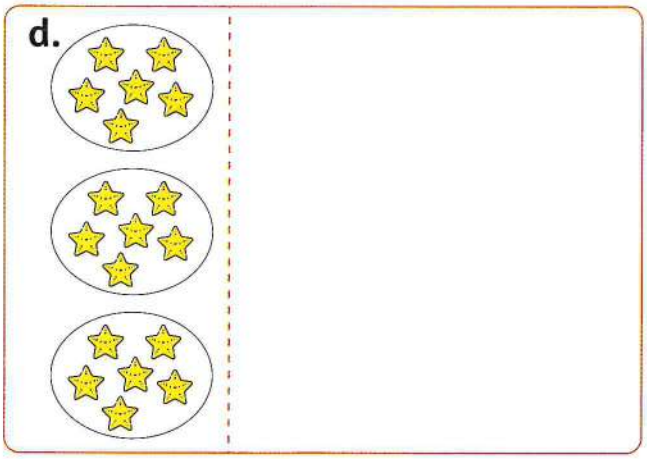
_____ × _____ = _____ × _____

c.



_____ × _____ = _____ × _____

d.



_____ × _____ = _____ × _____

7 Complete.

a. $3 \times 5 = 5 \times$ _____

b. $2 \times$ _____ $= 9 \times 2$

c. _____ $\times 8 = 8 \times 7$

d. $4 \times 6 =$ _____ $\times 4$

e. $7 \times 10 = 10 \times$ _____

f. $4 \times$ _____ $= 1 \times$ _____

g. _____ $\times 6 =$ _____ $\times 4$

h. $3 \times$ _____ $= 2 \times$ _____

i. $5 + 5 + 5 + 5 = 5 \times$ _____ $=$ _____ $\times 5$

j. $9 + 9 = 2 \times$ _____ $=$ _____ $\times 2$

8 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. $7 \times 9 = 9 \times 7$ ( )

b. $1 \times 5 = 15 \times 1$ ( )

c. $2 \times 9 = 18 = 9 \times 2$ ( )

d. $7 + 7 + 7 = 3 + 3 + 3 + 3 + 3 + 3 + 3$ ( )

e. $4 \times 7 = 7 + 4$ ( )

f. $5 \times 6 = 6 - 5$ ( )

9 Match.

a. 3×4

b. $2 + 2 + 2 + 2 + 2$

c. 5×3

d. 5×1

5×2

4×3

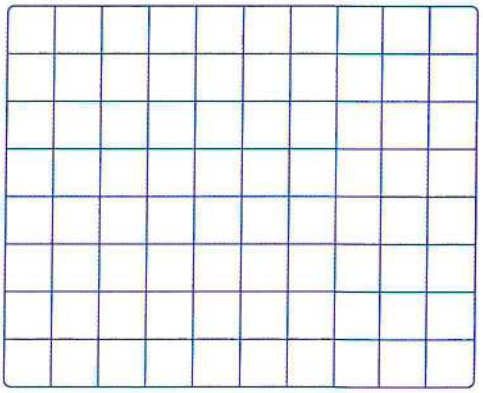
$5 + 0$

3×5

Challenge

10 Draw and color the array on the opposite grid according to the multiplication sentence 5×7

What is the number of uncolored blocks ? _____



Place a smiley face

CHAPTER 3

Outcomes of chapter three :

At the end of chapter three, your child will be able to:

▶ **Lessons 1 & 2 :**

- **Word problems on multiplication**
- **Applications on multiplication**
- Use a variety of strategies to solve multiplication story problems.
- Explain elements of multiplication story problems.
- Record a multiplication equation to match a story problem.
- Match multiplication equations to story problems.
- Write a multiplication story problem that matches a given equation.

▶ **Lesson 3 :**

- **Multiples of 2 , 3 and 4**
- Explain the rules for multiplying by 0 and 1.
- Identify common multiples of 2 and 3.
- Predict common multiples of 2 and 3 greater than 120.
- Use evidence to justify and explain mathematical thinking.

▶ **Lessons 4 A & 4 B :**

- **Multiples of 5 , 6 and 7**
- **Multiples of 8 , 9 and 10**
- Identify the multiples of 5 and 10.
- Identify numerical patterns when multiplying by 5 and 10.
- Explain the relationship between skip counting and multiplication facts.

▶ **Lesson 5 :**

- **Factors of a number using arrays**
- Explore the relationship between multiples of 2, 3 and 6.
- Model the Commutative Property of Multiplication using arrays.
- Identify factor pairs using arrays.

▶ **Lessons 6 & 7 :**

- **Time**
- **Applications on time**
- Explain the relationship between skip counting by 5s and telling time to 5-minute increments.
- Read and write time in 5-minute increments on an analog clock.
- Use a variety of strategies to tell time to 5-minute increments.

▶ **Lessons 8 & 9 :**

- **Division**
- **Applications on division**
- Explain the relationship between sharing equally and dividing.
- Use a variety of strategies to solve division problems.
- Explain his/her thinking when solving division problems.

▶ **Lesson 10 :**

- **The relation between multiplication and division**
- Describe the relationship between factors and their product.
- Use the division symbol.
- Apply the relationship between multiplication and division to identify fact families.
- Solve division problems with one unknown.

Lessons 1 & 2

• Word problems on multiplication
• Applications on multiplication

Learn How to solve multiplication word problem ?

Eman has 3 plates.

There are 2 oranges in each plate.

How may oranges are there in all ?

Understand

- What do you want to find out ? Circle the question.
- What fact do you need ? Underline them.

Plan

- Write a number sentence to solve. 3 × 2 = ?

Solve

- You can use one of these different ways to solve the problem.

Using repeated addition

2 + 2 + 2 = 6

Using skip counting

2 , 4 , 6

+ 2 + 2

Using objects

This is a 3 rows of 2 array.
There is 6 objects.

So, 3 x 2 = 6

Check

Said saves 7 L.E. each month.
How much money does he save in 6 months ?

Work area

Notes for parents

- In these lessons your child will use one of the strategies he/she has studied to solve multiplication word problems.

Exercise 10

On Lessons 1 & 2

- **Word problems on multiplication**
- **Applications on multiplication**

From the school book

1 **Match each problem to the suitable multiplication sentence.**

a. Jana bought **3** packs of ping-pong balls.

Each pack has **5** balls.

How many balls are there ?

6 x 2 = 12

b. Andy downloaded **3** games onto his tablet. The next day he downloaded **3** more.

How many games has he downloaded ?

3 x 5 = 15

c. A guitar has **6** strings.

How many strings are there in 2 guitars ?

2 x 5 = 10

d. There are **5** apples in a box.

How many apples in 2 boxes ?

3 x 2 = 6

2 Read and solve. You may use counters to solve.

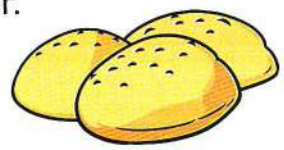
Remember
• *Understand* • *Plan* • *Solve*

a. Ahmed has 2 packets of sweets each contains 5 pieces of sweets.

How many pieces of sweets Ahmed has ?

_____

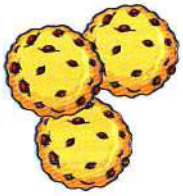
b. Farha went to the store to buy rolls for a big family dinner. At the store, she bought 4 bags of rolls. Each bag contained 5 rolls.



How many rolls did Farha buy ?

_____

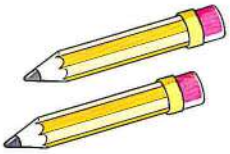
c. Manal brought 6 bags of cookies to school. Each bag had 3 cookies in it.



How many cookies were there all together ?

_____

d. Each pack of pencils contains 8 pencils.



How many pencils are in 3 packs ?

_____

e. Adam runs 2 hours every day.

What is the number of running hours in 9 days ?

_____

Work area

f. A bag of oranges holds 4 oranges.

How many oranges are in 8 bags ?

_____

g. Rana saw 6 dogs in a garden.

How many legs do the 6 dogs have ?

_____

h. Magi has 5 boxes of 7 balls each and another 4 boxes of 7 balls each. **How many balls does she have ?**

_____

Work area

3 **Write a multiplication story for the multiplication sentence. Then solve it. You may use counters to solve.**

4 x 5

_____

_____

_____

_____

Work area

Challenge

4 Maisa was trying to figure out how to solve the multiplication problem 12 × 13 but was stuck. **Can you show her how to work through this problem and what the product might be ?**

_____

_____

_____

_____

Work area

Place a smiley face

Lesson 3

Multiples of 2 , 3 and 4

Learn 1 Multiples of 2 , 3 and 4

- Multiple is the product of a given whole number by any other.
- You can get multiples of a number by skip counting by this number using a 120 chart.

111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

For example :

To find 2×7

Start at 2 and shade 7 boxes after skip counting by 2

You will land on 14

So, $2 \times 7 = 14$

Also :

To find 3×5

Start at 3 and shade 5 boxes after skip counting by 3

You will land on 15

So, $3 \times 5 = 15$

Multiples of 2

Start from 2 and skip counting by 2

Multiples of 2 song

2 × 1 = 2
2 × 2 = 4
2 × 3 = 6
2 × 4 = 8
2 × 5 = 10
2 × 6 = 12
2 × 7 = 14
2 × 8 = 16
2 × 9 = 18
2 × 10 = 20
..... × ..... = ...

Multiples of 3

Start from 3 and skip counting by 3

Multiples of 3 song

3 × 1 = 3
3 × 2 = 6
3 × 3 = 9
3 × 4 = 12
3 × 5 = 15
3 × 6 = 18
3 × 7 = 21
3 × 8 = 24
3 × 9 = 27
3 × 10 = 30
..... × ..... = ...

Multiples of 4

Start from 4 and skip counting by 4

Multiples of 4 song

4 × 1 = 4
4 × 2 = 8
4 × 3 = 12
4 × 4 = 16
4 × 5 = 20
4 × 6 = 24
4 × 7 = 28
4 × 8 = 32
4 × 9 = 36
4 × 10 = 40
..... × ..... = ...

Check Find the product.

$2 \times 4 =$ _____	$3 \times 7 =$ _____	$4 \times 9 =$ _____	$2 \times 8 =$ _____
$3 \times 5 =$ _____	$4 \times 8 =$ _____	$2 \times 10 =$ _____	$3 \times 4 =$ _____

Notes for parents

- Help your child find the product using different strategies as skip counting and arrays.

Learn 2 Common multiples of 2 and 3

- Use a 120 chart.
- Skip count by 2 to find multiples of 2 up to 60. Shade each multiple of 2 red.
- Skip count by 3 to find multiples of 3 up to 60. Shade each multiple of 3 blue.

111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Which numbers are shaded twice ?

- The numbers are 6, 12, 18, 24, 30, 36, 42, 48, 54 and 60
  These numbers are common multiples of 2 and 3 up to 60

What do you notice about these numbers ?

- The numbers are increasing in the same pattern
  , its rule is **+ 6**

So, you can predict the next common multiple

60 + 6 = 66

Check

Use the chart. Ring the multiples of 2 and underline the multiples of 3 then, find the multiples of 2 and 3 together.

23	12	15	18	30	66	33
22	48	96	100	54	27	32
20	13	24	29	40	42	50

The common multiples of 2 and 3 together are _____

• Help your child find 3 common multiples of 2 and 3 greater than 70.

Learn 3 Multiplying by 1 and 0

- Ahmed has 5 baskets.
  There is 1 orange in each basket.
  How many oranges are there in all ?

5 × 1 = 5 oranges

- Rasha has 3 baskets.
  There is 0 oranges in each basket.
  How many oranges are there in all ?

3 × 0 = 0 oranges

Any number multiplied by 1 equals the same number.

Any number multiplied by 0 equals 0

Check

The multiplication operation is commutative.

Find each product.

5 × 1 ____ 4 × 1 ____ 9 × 1 ____

0 × 5 ____ 7 × 1 ____ 12 × 0 ____

6	0	12
× 0	× 8	× 1
____	____	____

Notes for parents

- Ask your child which is greater, the product of his/her age times 0 or the product of his/her age times 1 ?

Exercise 11

On Lesson 3

Multiples of 2 , 3 and 4

Play game

1 Find the product.

2 × 0 = ____	3 × 0 = ____	4 × 0 = ____
2 × 1 = ____	3 × 1 = ____	4 × 1 = ____
2 × 2 = ____	3 × 2 = ____	4 × 2 = ____
2 × 3 = ____	3 × 3 = ____	4 × 3 = ____
2 × 4 = ____	3 × 4 = ____	4 × 4 = ____
2 × 5 = ____	3 × 5 = ____	4 × 5 = ____
2 × 6 = ____	3 × 6 = ____	4 × 6 = ____
2 × 7 = ____	3 × 7 = ____	4 × 7 = ____
2 × 8 = ____	3 × 8 = ____	4 × 8 = ____
2 × 9 = ____	3 × 9 = ____	4 × 9 = ____
2 × 10 = ____	3 × 10 = ____	4 × 10 = ____

2 × 7 = ____	3 × 5 = ____	4 × 3 = ____
2 × 5 = ____	3 × 1 = ____	4 × 9 = ____
2 × 2 = ____	3 × 7 = ____	4 × 6 = ____
2 × 3 = ____	3 × 0 = ____	4 × 1 = ____
2 × 9 = ____	3 × 9 = ____	4 × 10 = ____
2 × 1 = ____	3 × 2 = ____	4 × 0 = ____
2 × 4 = ____	3 × 10 = ____	4 × 2 = ____
2 × 8 = ____	3 × 4 = ____	4 × 7 = ____
2 × 6 = ____	3 × 6 = ____	4 × 4 = ____
2 × 10 = ____	3 × 3 = ____	4 × 8 = ____
2 × 0 = ____	3 × 8 = ____	4 × 5 = ____

2 Find each product.

a. 3 × 7 ____

b. 2 × 4 ____

c. 2 × 8 ____

d. 3 × 8 ____

e. 1 × 2 ____

f. 5 × 3 ____

g. 2 × 2 ____

h. 3 × 4 ____

i. 4 × 7 ____

j. 4 × 3 ____

k. 4 × 4 ____

l. 3 × 5 ____

m. 5 × 4 ____

n. 4 × 10 ____

o. 6 × 4 ____

p. 4 × 8 ____

q. 2 × 3 ____

r. 2 × 7 ____

s. 2 × 6 ____

t. 3 × 6 ____

u. 2 × 1 ____

v. 5 × 2 ____

w. 2 × 9 ____

x. 10 × 3 ____

y. 3 × 3 ____

z. 3 × 2 ____

3 Find the product.

a. 4 × 8 = ____

b. 5 × 4 = ____

c. 4 × 1 = ____

d. 9 × 3 = ____

e. 2 × 10 = ____

f. 2 × 4 = ____

g. 3 × 0 = ____

h. 2 × 9 = ____

i. 3 × 1 = ____

j. 1 × 3 = ____

k. 3 × 9 = ____

l. 4 × 2 = ____

m. 6 × 0 = ____

n. 7 × 2 = ____

o. 4 × 5 = ____

4 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. $3 \times 5 = 8$	( )	**b.** $2 \times 7 = 14$	( )
c. $1 \times 4 = 4$	( )	**d.** $4 \times 10 = 14$	( )
e. $0 \times 7 = 7$	( )	**f.** $2 \times 6 = 12$	( )
g. $2 \times 5 = 5 + 5 = 10$	( )	**h.** $3 \times 9 = 3 + 3 + 3$	( )
i. $3 \times 2 = 6 + 0$	( )	**j.** $2 \times 8 = 4 \times 4$	( )
k. $3 \times 3 = 3 + 3$	( )	**l.** $1 \times 3 = 1 + 1 + 1$	( )
m. $4 \times 7 = 28$	( )	**n.** $0 \times 7 = 0 + 7$	( )
o. $4 \times 5 = 2 \times 10$	( )	**p.** $0 \times 9 = 0$	( )

5 Join the equal results.

a. 2×5 **b.** 2×3 **c.** 3×3 **d.** 2×9 **e.** 4×3

$6 + 3$ 3×6 6×2 $5 + 5$ 3×2

6 Color the multiplication sentences in each row that have the same product.

a. 4×3 3×5 2×6

b. 2×10 8×3 4×6

c. 3×6 9×2 4×4

d. 4×0 0×3 4×1

7 Choose the correct answer.

a. 2 × _____ = 10

- ◯ 10
- ◯ 5
- ◯ 3
- ◯ 8

b. _____ × 3 = 30

- ◯ 6
- ◯ 8
- ◯ 10
- ◯ 5

c. _____ × 2 = 18

- ◯ 8
- ◯ 16
- ◯ 7
- ◯ 9

d. 2 × _____ = 4 + 4 + 4

- ◯ 2
- ◯ 4
- ◯ 6
- ◯ 8

e. 4 × _____ = 36

- ◯ 10
- ◯ 8
- ◯ 9
- ◯ 1

f. 1 × _____ = 9

- ◯ 1
- ◯ 8
- ◯ zero
- ◯ 9

g. 0 × 7 = _____

- ◯ 0
- ◯ 7
- ◯ 1
- ◯ 5

h. _____ × 7 = 14

- ◯ 1
- ◯ 2
- ◯ 3
- ◯ 4

i. _____ × 8 = 24

- ◯ 1
- ◯ 2
- ◯ 3
- ◯ 4

j. _____ × 10 = 40

- ◯ 1
- ◯ 2
- ◯ 3
- ◯ 4

k. 2 × _____ = 16

- ◯ 5
- ◯ 7
- ◯ 8
- ◯ 9

l. 3 × _____ = 21

- ◯ 5
- ◯ 6
- ◯ 7
- ◯ 8

m. 4 × _____ = 16

- ◯ 1
- ◯ 2
- ◯ 3
- ◯ 4

n. 1 × _____ = 8

- ◯ 6
- ◯ 7
- ◯ 8
- ◯ 9

o. _____ × 10 = zero

- ◯ 0
- ◯ 1
- ◯ 2
- ◯ 3

p. _____ × 5 = 5

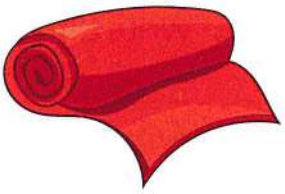
- ◯ 0
- ◯ 1
- ◯ 2
- ◯ 3

8 Put "< , > or =".

a. 3×5	◯	2×4	**b.** 1×4	◯	0×4
c. $0 + 3$	◯	0×3	**d.** 2×2	◯	$2 + 2$
e. $15 - 5$	◯	2×5	**f.** 4×4	◯	$4 - 4$
g. 2×9	◯	3×6	**h.** 3×9	◯	3×10
i. $7 + 7$	◯	3×7	**j.** $8 - 8$	◯	2×8
k. $9 + 9 + 9$	◯	3×9	**l.** 4×7	◯	$68 - 40$
m. $1 + 1 + 1 + 1 + 1$	◯	1×6	**n.** $3 - 3$	◯	3×0
o. 3×9	◯	2×9	**p.** 4×6	◯	4×10
q. 2×10	◯	4×5	**r.** 2×5	◯	3×4

9 Word problems on Multiples of 2 , 3 and 4

a. If the price of one metre of cloth is 9 L.E., then find the price of 4 metres of this cloth.



The price of 4 metres = _____ = _____ L.E.

b. How many flowers are there in 3 bunches of flowers if each has 10 flowers ?

The number of flowers in the bunches = _____ = _____ flowers.

c. There are 2 lions in a cage.

How many lions are there in 8 cages ?

The number of lions = _____ = _____ lions.

10 Use the chart.

a. Ring the multiples of 2

15 24 32 17 50 44

b. Ring the multiples of 3

22 18 40 20 33 13

c. Ring the multiples of 4

5 16 12 20 31 17

d. Write the multiples of 2 up to 30

_____

e. Write the multiples of 2 between 31 and 55

_____

f. Write the multiples of 3 up to 40

_____

g. Write the multiples of 3 between 41 and 50

_____

h. Write the multiples of 4 up to 50

_____

i. Write three common multiples of 2 and 3 greater than 40 and smaller than 70

_____

j. Write three common multiples of 2 and 3 between 80 and 100

_____

11 Complete. Write + or ×.

a. 8 1 = 9 **b.** 9 1 = 9 **c.** 0 5 = 5

d. 2 0 = 2 **e.** 0 7 = 0 **f.** 1 7 = 8

Challenge

Place a smiley face

12 Three numbers, their sum equals their product.

What are these numbers ? _____

Lesson

4A

Multiples of 5 , 6 and 7

Learn Multiples of 5 , 6 and 7

- You can get multiples of 5 , 6 or 7 by skip counting by this number using a 120 chart.

For example :

To find 5×6

start at 5 and shade

6 boxes after skip

counting by 5

You will land on 30

So, $5 \times 6 = 30$

111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Also :

To find 6×7

start at 6 and shade

7 boxes after skip

counting by 6

You will land on 42

So, $6 \times 7 = 42$

Multiples of 5

Start from 5
and skip counting by 5

Multiples of 5 song

5 × 1 = 5
5 × 2 = 10
5 × 3 = 15
5 × 4 = 20
5 × 5 = 25
5 × 6 = 30
5 × 7 = 35
5 × 8 = 40
5 × 9 = 45
5 × 10 = 50
..... × ..... = ...

Multiples of 6

Start from 6
and skip counting by 6

Multiples of 6 song

6 × 1 = 6
6 × 2 = 12
6 × 3 = 18
6 × 4 = 24
6 × 5 = 30
6 × 6 = 36
6 × 7 = 42
6 × 8 = 48
6 × 9 = 54
6 × 10 = 60
..... × ..... = ...

Multiples of 7

Start from 7
and skip counting by 7

Multiples of 7 song

7 × 1 = 7
7 × 2 = 14
7 × 3 = 21
7 × 4 = 28
7 × 5 = 35
7 × 6 = 42
7 × 7 = 49
7 × 8 = 56
7 × 9 = 63
7 × 10 = 70
..... × ..... = ...

Check Find the product.

$5 \times 7 =$ _____	$6 \times 8 =$ _____	$7 \times 4 =$ _____	$5 \times 9 =$ _____
$7 \times 8 =$ _____	$5 \times 6 =$ _____	$6 \times 3 =$ _____	$6 \times 10 =$ _____

Notes for parents

- Help your child skip counting by 5 , 6 and 7 on the 120 chart.

Exercise 12

On Lesson 4 A

Multiples of 5 , 6 and 7

Play game

1 Find the product.

5 × 0 = ____	6 × 0 = ____	7 × 0 = ____
5 × 1 = ____	6 × 1 = ____	7 × 1 = ____
5 × 2 = ____	6 × 2 = ____	7 × 2 = ____
5 × 3 = ____	6 × 3 = ____	7 × 3 = ____
5 × 4 = ____	6 × 4 = ____	7 × 4 = ____
5 × 5 = ____	6 × 5 = ____	7 × 5 = ____
5 × 6 = ____	6 × 6 = ____	7 × 6 = ____
5 × 7 = ____	6 × 7 = ____	7 × 7 = ____
5 × 8 = ____	6 × 8 = ____	7 × 8 = ____
5 × 9 = ____	6 × 9 = ____	7 × 9 = ____
5 × 10 = ____	6 × 10 = ____	7 × 10 = ____

2 Find the product.

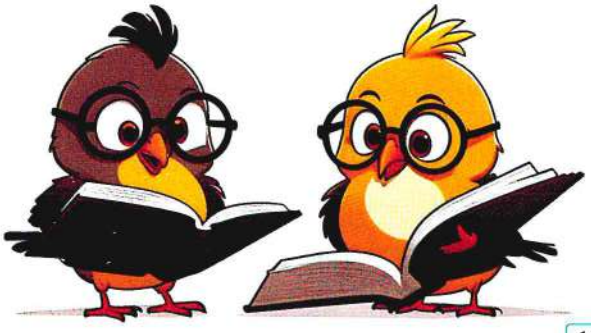
5 × 6 = ____	6 × 4 = ____	7 × 8 = ____
5 × 2 = ____	6 × 10 = ____	7 × 1 = ____
5 × 1 = ____	6 × 0 = ____	7 × 9 = ____
5 × 8 = ____	6 × 3 = ____	7 × 0 = ____
5 × 0 = ____	6 × 1 = ____	7 × 2 = ____
5 × 3 = ____	6 × 6 = ____	7 × 10 = ____
5 × 10 = ____	6 × 5 = ____	7 × 6 = ____
5 × 7 = ____	6 × 8 = ____	7 × 3 = ____
5 × 5 = ____	6 × 2 = ____	7 × 5 = ____
5 × 4 = ____	6 × 7 = ____	7 × 4 = ____
5 × 9 = ____	6 × 9 = ____	7 × 7 = ____

3 Find each product.

a. 7 × 7 ____
b. 5 × 6 ____
c. 6 × 4 ____
d. 7 × 3 ____
e. 6 × 8 ____
f. 7 × 10 ____
g. 6 × 5 ____
h. 5 × 2 ____
i. 5 × 8 ____
j. 5 × 4 ____
k. 5 × 1 ____
l. 5 × 9 ____
m. 7 × 4 ____
n. 5 × 7 ____
o. 6 × 6 ____
p. 6 × 7 ____
q. 6 × 9 ____
r. 7 × 8 ____
s. 7 × 5 ____
t. 7 × 2 ____
u. 5 × 5 ____
v. 7 × 0 ____
w. 6 × 3 ____
x. 7 × 6 ____
y. 7 × 9 ____
z. 5 × 3 ____

4 Find the result.

a. 10 × 5 = ____
b. 10 × 7 = ____
c. 2 × 5 = ____
d. 5 × 5 = ____
e. 5 × 6 = ____
f. 3 × 5 = ____
g. 8 × 7 = ____
h. 10 × 6 = ____
i. 7 × 5 = ____
j. 6 × 7 = ____



5 Put "> , = or <".

a. 5×5	◯	6×6	**b.** 5×7	◯	5×8
c. 7×3	◯	6×5	**d.** $5 + 5$	◯	5×5
e. 5×8	◯	7×4	**f.** 7×5	◯	5×3
g. 6×6	◯	6×5	**h.** 5×7	◯	7×3
i. 6×9	◯	7×7	**j.** 6×4	◯	5×7
k. 6×8	◯	7×7	**l.** $5 + 5$	◯	5×2
m. 7×0	◯	$7 + 0$	**n.** 6×8	◯	7×9
o. 5×5	◯	6×4	**p.** 7×10	◯	6×9
q. 6×1	◯	7×0	**r.** 5×9	◯	7×8
s. 7×6	◯	6×7	**t.** $7 + 7 + 7 + 7$	◯	7×7
u. $7 + 5$	◯	5×6	**v.** $11 + 9$	◯	5×4

6 Choose the correct answer.

a. $5 \times 6 =$ _____ (3×10 or 4×10 or 6×6 or 7×9)

b. $6 \times 7 >$ _____ (63 or 72 or 27 or 100)

c. $4 \times 7 >$ _____ (8×3 or 4×10 or 9×5 or 6×10)

d. $7 \times 5 =$ _____ (53 or 42 or 35 or 12)

e. $7 \times 1 =$ _____ $+ 7$ (0 or 1 or 2 or 3)

f. $0 \times 6 =$ _____ ($1 + 1$ or $1 - 1$ or 1×1 or 8)

g. $5 \times 9 =$ _____ (19 or $40 + 5$ or 54 or 14)

h. All the following equals to 30 except _____
(5×6 or 3×10 or $3 + 10$ or 6×5)

i. All the following are equal to 28 except _____
(6×4 or 4×7 or 7×4 or 2 tens and 8 ones)

j. Which of the following is equal to 48 ?
(5×8 or 7×8 or 6×8 or $8 + 8 + 8 + 8$)

k. Which of the following is equal to 40 ? (6×7 or 7×5 or 5×8 or 4×9)

7 Match.

a. 4 × 9 b. 0 × 6 c. 2 × 9 d. 6 × 1 e. 6 × 4

1. 7 × 0 2. 6 × 6 3. 3 × 6 4. 20 + 4 5. 6 + 0

8 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. $5 \times 8 = 4 \times 10 = 40$ ( )

b. $6 \times 7 < 5 \times 8$ ( )

c. $5 + 5 + 5 = 5 \times 3 = 15$ ( )

d. $7 \times 1 = 7 + 0$ ( )

e. $7 \times 0 = 0 \times 5$ ( )

f. $7 \times 5 > 5 \times 6$ ( )

g. $7 \times 6 = 40 + 2$ ( )

h. $6 + 6 + 6 + 6 + 6 + 6 = 6 \times 6 = 66$ ( )

i. $7 \times 9 = 36$ ( )

j. $6 \times 5 = 3 \times 10$ ( )

k. $6 \times 9 < 6 \times 10$ ( )

l. $7 + 7 + 7 + 7 + 7 + 7 + 7 > 7 \times 6$ ( )

9 Use the chart. Choose yes or no.

a. Is 15 a multiple of 5?
Yes No

b. Is 70 a multiple of 5?
Yes No

c. Is 54 a multiple of 7?
Yes No

d. Is 63 a multiple of 7?
Yes No

e. Is 6 a multiple of 6?
Yes No

f. Is 1 a multiple of 6?
Yes No

10 Word problems.

a. If the weight of one fish is 2 kg.

Find the weight of 6 fish.

The weight of 6 fish = _____ = _____ kg.

b. The pupils of one of the third primary classes stood in 5 lines with 8 pupils in each line.

How many pupils are there in this class ?

Number of the pupils = _____ = _____ pupils.

c. Aly bought 7 bars of chocolate for 4 pounds each.

How much money did Aly pay ?

Aly paid = _____ = _____ pounds.

d. Nagwa bought 5 bags of oranges and each bag contains 9 oranges.

How many oranges did Nagwa buy ?

The number of oranges = _____ = _____ oranges.

11 Use the chart.

a. Write the first three common multiples of 5 and 6.

_____

_____

b. Write the first three common multiples of 5 and 7.

_____

_____

Challenge

12 How many common multiples of 5 , 6 and 7 are there up to 120 ?

(You can use a 120 chart).

_____

_____

Place a smiley face

Lesson

4B Multiples of 8 , 9 and 10

Learn 1 Multiples of 8 , 9 and 10

- You can get multiples of 8 , 9 or 10 by skip counting by this number using a 120 chart.

For example :

To find 8×9
start at 8 and shade 9 boxes after skip counting by 8
You will land on 72

So, $8 \times 9 = 72$

111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Also :

To find 10×8
start at 10 and shade 8 boxes after skip counting by 10
You will land on 80

So, $10 \times 8 = 80$

Multiples of 8

Start from 8
and skip counting by 8

Multiples of 8 song

$8 \times 1 = 8$
$8 \times 2 = 16$
$8 \times 3 = 24$
$8 \times 4 = 32$
$8 \times 5 = 40$
$8 \times 6 = 48$
$8 \times 7 = 56$
$8 \times 8 = 64$
$8 \times 9 = 72$
$8 \times 10 = 80$
..... × ..... = ...

Multiples of 9

Start from 9
and skip counting by 9

Multiples of 9 song

$9 \times 1 = 9$
$9 \times 2 = 18$
$9 \times 3 = 27$
$9 \times 4 = 36$
$9 \times 5 = 45$
$9 \times 6 = 54$
$9 \times 7 = 63$
$9 \times 8 = 72$
$9 \times 9 = 81$
$9 \times 10 = 90$
..... × ..... = ...

Multiples of 10

Start from 10
and skip counting by 10

$10 \times 1 = 10$
$10 \times 2 = 20$
$10 \times 3 = 30$
$10 \times 4 = 40$
$10 \times 5 = 50$
$10 \times 6 = 60$
$10 \times 7 = 70$
$10 \times 8 = 80$
$10 \times 9 = 90$
$10 \times 10 = 100$
..... × ..... = ...

Check

Use the chart. Find each product.

$8 \times 7 =$ _____	$9 \times 9 =$ _____	$10 \times 3 =$ _____	$8 \times 5 =$ _____
$8 \times 8 =$ _____	$7 \times 10 =$ _____	$6 \times 9 =$ _____	$9 \times 8 =$ _____

Notes for parents

- Help your child discover that the ones digit for the multiples of 10 is 0.

Learn 2 Common multiples of 5 and 10

- Using a 120 chart.
- Draw a circle around each multiple of 5 and a triangle on each multiple of 10 on this chart up to 60.

111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

- **Which numbers are marked twice on the chart ?**
  - The numbers are 10, 20, 30, 40, 50 and 60
  - These numbers are common multiples of 5 and 10

- **What do you notice about these numbers ?**
  - The ones digit is 0

Check

Circle the multiples of 5 and underline the multiples of 10, then deduce the common multiples of 5 and 10.

15 50 55 65 70 25

40 105 110 90 85 30

- Multiples of 5 are _____
- Multiples of 10 are _____
- The common multiples of 5 and 10 are _____

Notes for parents

- Ask your child to find common multiples of 5 and 10 greater than 60.

Exercise
13
On Lesson 4 B

Multiples of 8 , 9 and 10

Play game

1 Find the product.

8 × 0 = ____	9 × 0 = ____	10 × 0 = ____
8 × 1 = ____	9 × 1 = ____	10 × 1 = ____
8 × 2 = ____	9 × 2 = ____	10 × 2 = ____
8 × 3 = ____	9 × 3 = ____	10 × 3 = ____
8 × 4 = ____	9 × 4 = ____	10 × 4 = ____
8 × 5 = ____	9 × 5 = ____	10 × 5 = ____
8 × 6 = ____	9 × 6 = ____	10 × 6 = ____
8 × 7 = ____	9 × 7 = ____	10 × 7 = ____
8 × 8 = ____	9 × 8 = ____	10 × 8 = ____
8 × 9 = ____	9 × 9 = ____	10 × 9 = ____
8 × 10 = ____	9 × 10 = ____	10 × 10 = ____

2 Find the result.

8 × 3 = ____	9 × 8 = ____	10 × 0 = ____
8 × 5 = ____	9 × 2 = ____	10 × 3 = ____
8 × 9 = ____	9 × 6 = ____	10 × 6 = ____
8 × 0 = ____	9 × 10 = ____	10 × 9 = ____
8 × 7 = ____	9 × 4 = ____	10 × 1 = ____
8 × 2 = ____	9 × 0 = ____	10 × 4 = ____
8 × 4 = ____	9 × 7 = ____	10 × 7 = ____
8 × 6 = ____	9 × 3 = ____	10 × 5 = ____
8 × 8 = ____	9 × 9 = ____	10 × 2 = ____
8 × 1 = ____	9 × 5 = ____	10 × 8 = ____
8 × 10 = ____	9 × 1 = ____	10 × 10 = ____

3 Find each product.

a. 8 × 7 ___
b. 9 × 6 ___
c. 10 × 4 ___
d. 8 × 0 ___
e. 9 × 5 ___
f. 10 × 10 ___
g. 8 × 2 ___
h. 9 × 9 ___
i. 10 × 6 ___
j. 8 × 4 ___
k. 9 × 1 ___
l. 10 × 7 ___
m. 8 × 1 ___
n. 9 × 8 ___
o. 8 × 3 ___
p. 9 × 4 ___
q. 8 × 8 ___
r. 10 × 8 ___
s. 8 × 10 ___
t. 9 × 7 ___
u. 8 × 5 ___
v. 8 × 9 ___
w. 8 × 6 ___
x. 10 × 5 ___
y. 10 × 9 ___
z. 10 × 3 ___

4 Find the product.

a. 10 × 4 = ___
b. 10 × 10 = ___
c. 2 × 10 = ___
d. 5 × 9 = ___
e. 5 × 8 = ___
f. 3 × 10 = ___
g. 6 × 8 = ___
h. 7 × 9 = ___
i. 1 × 10 = ___
j. 4 × 10 = ___
k. 9 × 10 = ___
l. 10 × 8 = ___

5 Put "> , = or <".

a. 9×5	◯	8×6	**b.** 9×7	◯	8×8
c. 10×3	◯	9×5	**d.** $8 + 9$	◯	8×9
e. 8×8	◯	10×4	**f.** 10×5	◯	5×10
g. 8×5	◯	5×8	**h.** 9×6	◯	8×5
i. 9×4	◯	8×7	**j.** 9×0	◯	8×0
k. 9×9	◯	8×7	**l.** 9×4	◯	10×7
m. 8×0	◯	8×1	**n.** 7×7	◯	8×6
o. 8×8	◯	$8 + 8$	**p.** 9×0	◯	$9 + 0$
q. 9×8	◯	10×9	**r.** 10×4	◯	8×5
s. 8×10	◯	9×9	**t.** 6×9	◯	7×7
u. 9×3	◯	3×9	**v.** 9×6	◯	9×7
w. $8 + 8 + 8 + 8$	◯	8×8	**x.** $9 + 9 + 9 + 9$	◯	9×4
y. $7 + 11$	◯	9×2	**z.** $3 + 9$	◯	9×3

6 Choose the correct answer.

a. $8 \times 5 =$ _____ (3×10 or 4×10 or 6×6 or 7×9)

b. $9 \times 6 >$ _____ (54 or 72 or 43 or 90)

c. $8 \times 7 <$ _____ (8×3 or 4×10 or 9×5 or 6×10)

d. $5 \times 10 =$ _____
($10 + 10 + 10$ or $10 + 10 + 10 + 10$ or $10 + 10 + 10 + 10 + 10$ or $10 + 10$)

e. $9 \times 5 =$ _____ (54 or 45 or 95 or 14)

f. $8 \times 9 = 70 +$ _____ (1 or 2 or 3 or 4)

g. $1 \times 8 =$ _____ $+ 8$ (0 or 1 or 2 or 3)

h. $8 \times 0 =$ _____ ($1 + 1$ or $1 - 1$ or 1×1 or 8)

i. $10 \times 9 =$ _____ (19 or $10 + 9$ or 91 or 90)

j. All the following are equal to 40 except _____
(8×5 or 10×4 or $10 + 30$ or 0×12)

k. All the following are equal to 36 except _____

(9×4 or 6×6 or 3×10 or 3 tens and 6 ones)

l. Which of the following is equal to 90 ?

(9×9 or 9×10 or 9×5 or $9 + 9 + 9 + 9 + 9 + 9 + 9$)

m. Which of the following is equal to zero ?

(8×1 or 10×1 or 8×0 or 9×1)

7 Join the equal results.

a. 10×4 **b.** 4×5 **c.** 2×5 **d.** 5×6 **e.** 10×5

1. 3×10 **2.** 5×10 **3.** 10×2 **4.** 8×5 **5.** 10×1

8 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. $8 \times 5 = 4 \times 10 = 40$ ( )

b. $9 \times 7 < 8 \times 8$ ( )

c. $8 + 8 + 8 + 8 + 8 + 8 = 8 \times 7 = 56$ ( )

d. $9 \times 9 = 9 + 9$ ( )

e. $10 \times 0 = 0 \times 8$ ( )

f. $8 \times 8 > 10 \times 6$ ( )

g. $9 \times 6 = 40 + 5$ ( )

h. $10 + 10 + 10 = 10 \times 3 = 30$ ( )

i. $8 \times 9 = 27$ ( )

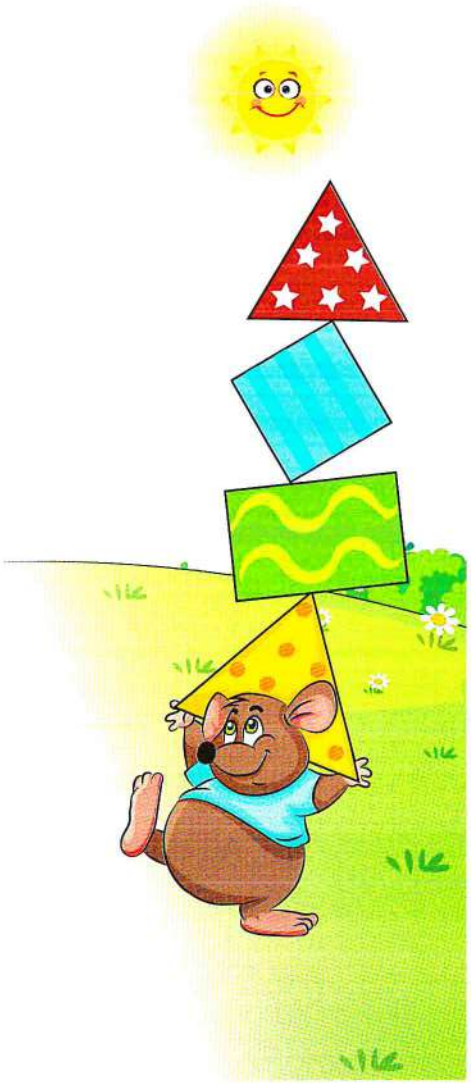
j. $8 \times 10 = 9 \times 9$ ( )

k. $10 \times 9 < 8 \times 9$ ( )

l. $7 + 7 + 7 + 7 = 9 \times 3$ ( )

m. $9 \times 0 = 8 + 1$ ( )

n. $72 = 9 \times 8 = 8 \times 9$ ( )



9 Use the chart.

a. Write three common multiples of 5 and 10 greater than 63 and smaller than 98

_____

_____

b. Write three common multiples of 5 and 10 greater than 99 and smaller than 125

_____

_____

c. Write three common multiples of 5 and 10 less than 100

_____

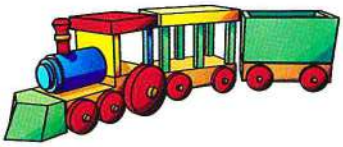
_____

10 Word problems.

a. A box of spread cheese has 8 pieces.
What is the number of pieces in 9 boxes ?
The number of pieces in 9 boxes
= _____ = _____ pieces.

b. Wael bought ten books for 9 pounds each.
What is the price of all books ?
The price of all books = _____ = _____ pounds.

c. There are eight carriages in each toy train.
How many carriages are there in six trains ?
The number of carriages = _____
= _____ carriages.



Challenge

11 Heba says that 37 is a multiple of 10 because the digits 3 and 7 add to 10.
Do you agree ? Explain.

_____

_____

Place a smiley face

Review on the Multiples

1 Find the result.

1. 4 × 7 = ____
2. 9 × 5 = ____
3. 7 × 9 = ____
4. 8 × 8 = ____
5. 3 × 8 = ____
6. 6 × 5 = ____
7. 4 × 9 = ____
8. 8 × 6 = ____
9. 5 × 8 = ____
10. 9 × 8 = ____
11. 6 × 4 = ____
12. 1 × 6 = ____
13. 9 × 0 = ____
14. 6 × 8 = ____
15. 9 × 9 = ____
16. 7 × 5 = ____
17. 3 × 6 = ____
18. 8 × 7 = ____
19. 6 × 9 = ____
20. 5 × 6 = ____
21. 9 × 7 = ____
22. 6 × 7 = ____
23. 2 × 8 = ____
24. 10 × 5 = ____
25. 4 × 8 = ____
26. 5 × 9 = ____
27. 7 × 7 = ____
28. 10 × 9 = ____
29. 7 × 8 = ____
30. 9 × 6 = ____
31. 0 × 8 = ____
32. 5 × 7 = ____
33. 6 × 6 = ____
34. 8 × 9 = ____
35. 7 × 4 = ____
36. 1 × 3 = ____
37. 4 × 6 = ____
38. 3 × 7 = ____
39. 9 × 4 = ____
40. 5 × 5 = ____
41. 10 × 7 = ____
42. 10 × 3 = ____

2 Find the result.

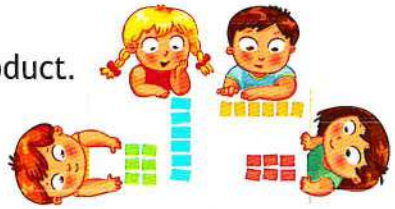
1. 9 × 8 = ____
2. 9 × 3 = ____
3. 7 × 9 = ____
4. 6 × 1 = ____
5. 7 × 4 = ____
6. 4 × 8 = ____
7. 6 × 6 = ____
8. 7 × 7 = ____
9. 6 × 5 = ____
10. 8 × 5 = ____
11. 5 × 10 = ____
12. 7 × 3 = ____
13. 7 × 5 = ____
14. 9 × 5 = ____
15. 9 × 6 = ____
16. 8 × 9 = ____
17. 9 × 7 = ____
18. 4 × 9 = ____
19. 5 × 0 = ____
20. 8 × 4 = ____
21. 7 × 10 = ____
22. 4 × 6 = ____
23. 8 × 10 = ____
24. 0 × 6 = ____
25. 5 × 4 = ____
26. 5 × 8 = ____
27. 6 × 3 = ____
28. 6 × 7 = ____
29. 8 × 3 = ____
30. 6 × 4 = ____
31. 6 × 9 = ____
32. 8 × 2 = ____
33. 5 × 7 = ____
34. 0 × 7 = ____
35. 5 × 6 = ____
36. 7 × 2 = ____
37. 8 × 7 = ____
38. 7 × 6 = ____
39. 9 × 9 = ____
40. 8 × 6 = ____
41. 9 × 4 = ____
42. 4 × 1 = ____

Lesson 5

Factors of a number using arrays

Learn

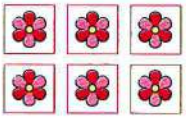
- Factor pair is a group of two numbers we multiply to get a product.
- Four friends Bassem, Mina, Hanan and Mariam. Each one has 6 identical cards and arranged them in rows of equal number of cards.



Bassem could arrange them in 1 row of 6 cards.

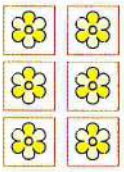
Factors: 1 × 6 — Factor pair

Mina could arrange them in 2 rows of 3 cards.



Factors: 2 × 3 — Factor pair

Hanan could arrange them in 3 rows of 2 cards.



Factors: 3 × 2 — Factor pair

Mariam could arrange them in 6 rows of 1 card.

Factors: 6 × 1 — Factor pair

So, *the number 6 can be arranged in different ways into arrays and its factors are 1, 2, 3 and 6.*

- *2 and 3 are factors of 6 (factor pair), and 6 is a common multiple of both 2 and 3.*
- *1 and 6 also are factors of 6 (factor pair), and 6 is a common multiple of both 1 and 6.*

Check

Write each factor pair and the factors of each number.

8

___ × ___ ___ × ___

___ × ___ ___ × ___

Factors are _____

14

___ × ___ ___ × ___

___ × ___ ___ × ___

Factors are _____

Notes for parents

- Help you child know that 2 and 3 are factors of 6, and 6 is a common multiple of both 2 and 3.

Exercise 14

On Lesson 5

Factors of a number using arrays

From the school book

1 Write each factor pair and the factors of each number.

Hint

You can use beans or buttons to make different arrays to find factor pairs

a. 16

___ × ___ ___ × ___

___ × ___ ___ × ___

___ × ___

Factors are _____

b. 12

___ × ___ ___ × ___

___ × ___ ___ × ___

___ × ___ ___ × ___

Factors are _____

c. 18

___ × ___ ___ × ___

___ × ___ ___ × ___

___ × ___ ___ × ___

Factors are _____

d. 20

___ × ___ ___ × ___

___ × ___ ___ × ___

___ × ___ ___ × ___

Factors are _____

e. 6

___ × ___ ___ × ___

___ × ___ ___ × ___

Factors are _____

f. 15

___ × ___ ___ × ___

___ × ___ ___ × ___

Factors are _____

g. 9

___ × ___ ___ × ___

___ × ___

Factors are _____

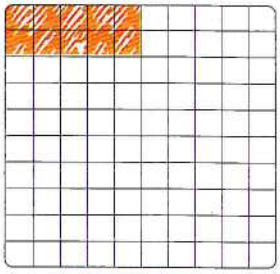
h. 7

___ × ___ ___ × ___

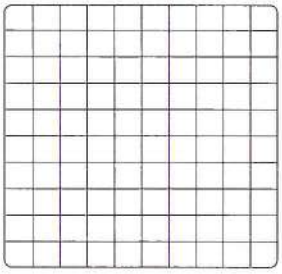
Factors are _____

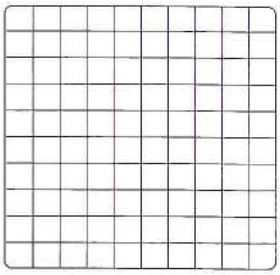
2 How many different arrays can you make with the given number ? Color the grids to show your work.

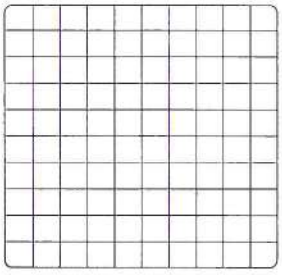
a. 10



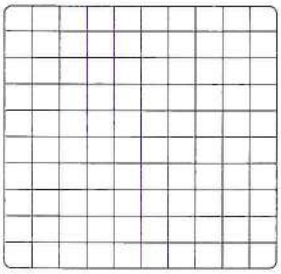
2×5

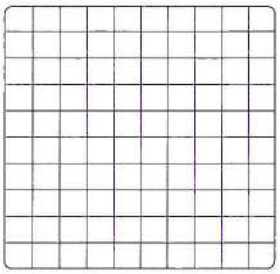


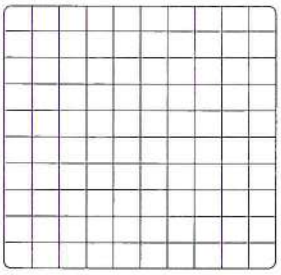


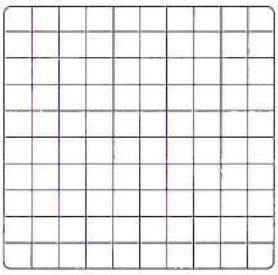


b. 8

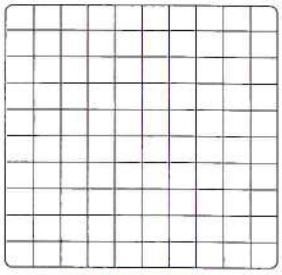


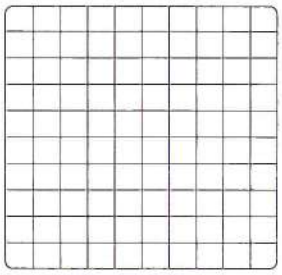


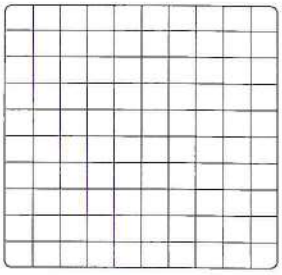


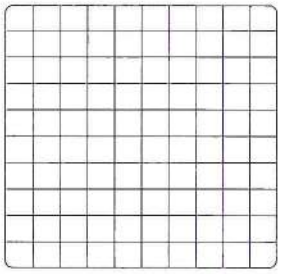


c. 12

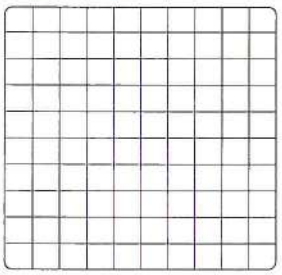


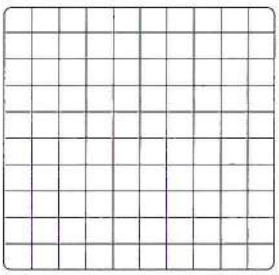


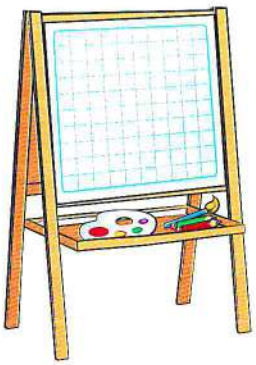




d. 15







3 Complete.

a. The number 6 has _____ factors.

b. The number 11 has _____ factors.

c. The number 10 has _____ factors.

d. The number 12 has _____ factors.

e. The number 5 has _____ factors.

f. The number 18 has _____ factors.

g. The number 16 has _____ factors.

h. The number 20 has _____ factors.

4 Complete using the given numbers. Use every number more than one time.

a.

1 2 7 14

_____ × _____ = 14

_____ × _____ = 14

_____ × _____ = 14

_____ × _____ = 14

b.

1 3 5 15

_____ × _____ = 15

_____ × _____ = 15

_____ × _____ = 15

_____ × _____ = 15

c.

3 7 1 21

_____ × _____ = 21

_____ × _____ = 21

_____ × _____ = 21

_____ × _____ = 21

d.

1 4 8 16 2

_____ × _____ = 16

_____ × _____ = 16

_____ × _____ = 16

_____ × _____ = 16

_____ × _____ = 16

Challenge

5 a. Which number does have one factor pair ? _____

b. Write three numbers where the number of the factors of each is two.

_____ , _____ and _____

Place a smiley face

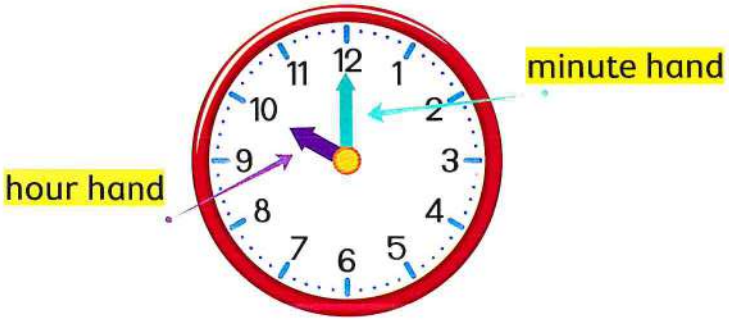
Lessons 6 & 7

• Time
• Applications on time

Remember

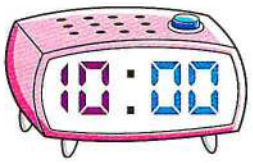
There are 60 minutes in 1 hour.

Analog clock

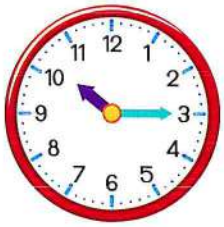


It is 10 o'clock

Digital clock

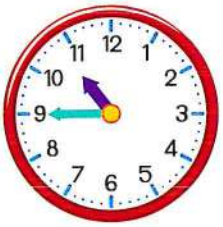


It is 10 o'clock



It is quarter past 10

It is half past 10



It is quarter to 11

Check

Write the time in two ways.

_____ : _____

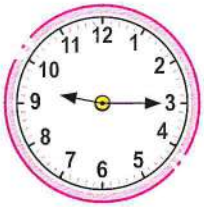
It's _____

_____

_____ : _____

It's _____

_____



_____ : _____

It's _____

_____

_____ : _____

It's _____

_____

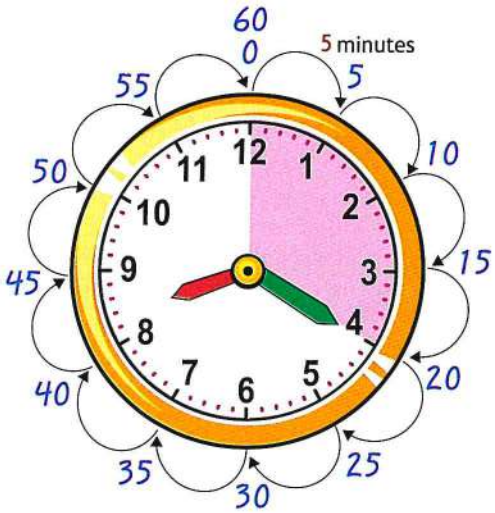
Notes for parents

• Ask your child where the minute hand and the hour hand point at 4 : 30 , 2 : 15 and 5 : 45.

Learn 1 Time to 5 minutes

It takes 5 minutes for the minute hand to move from one number to the next number on a clock face.

The time is 8 : 20



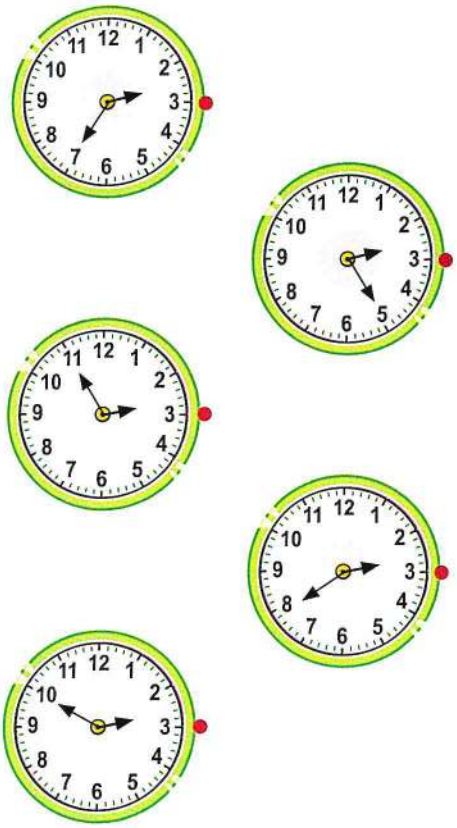
Math tip

Skip count by fives 5, 10, 15, 20 (multiples of 5). You count 4 times.

Where does the minute hand point at 8 : 20 ? The minute hand points at the 4

Check

Join.



- 02:55
- 02:35
- 02:50
- 02:25
- 02:40

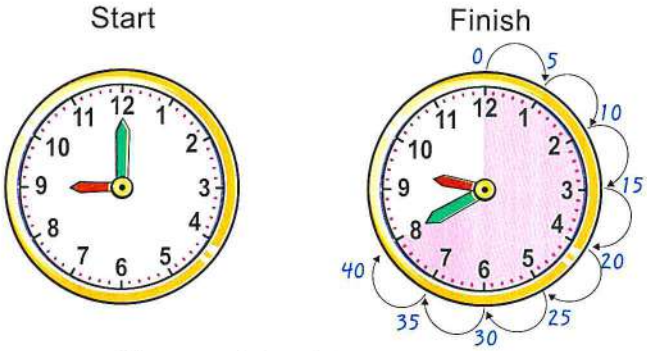
• Ask your child to count from 8 : 00 to 9 : 00 using 5-minutes intervals (8 : 00 , 8 : 05, 8 : 10, 8 : 15, and so on)

Learn 2 Elapsed time

Rasha started reading at 9 : 00

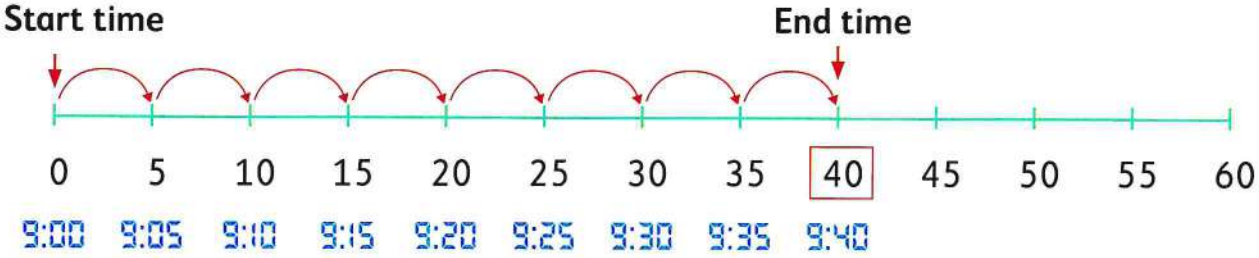
She finished reading at 9 : 40

For how long did she read ?



She read for 40 minutes.

You can count by fives as follows :

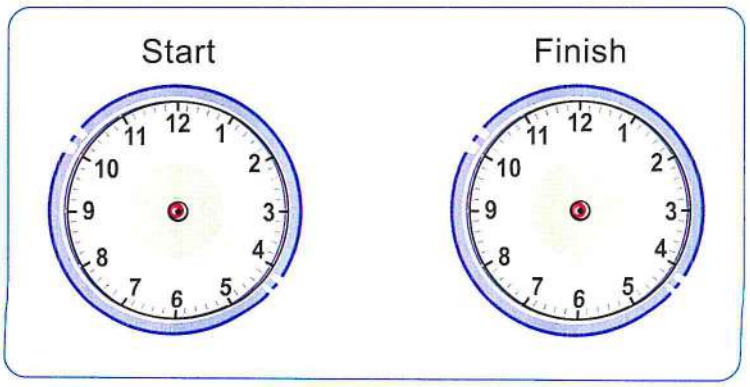


The elapsed time from 9:00 to 9:40 is 40 minutes.

Check

Youssef started swimming at 5 : 00 and he finished at 5 : 25

For how long did he swim ?



Math tip

Count by fives.

He swam for _____ minutes.

• Point out the clock when it shows time to the hour. Ask your child to explain how a clock shows that an hour has gone by.

Exercise 15

On Lessons 6 & 7

- **Time**
- **Applications on time**

From the school book

1 Write the time.

a.

b.

c.

d.

e.

f.

g.

h.

2 Write the time in two ways.

a.

It's _____

b.

It's _____

c.

It's _____

d.

It's _____

e.

It's _____

f.

It's _____

3 Draw the clock hands.

a. 9:05

b. 11:25

c. 3:40

d. 1:55

e. 6:10

f. 10:20

g. 8:50

h. 4:35

4 Draw the clock hands and write the time.

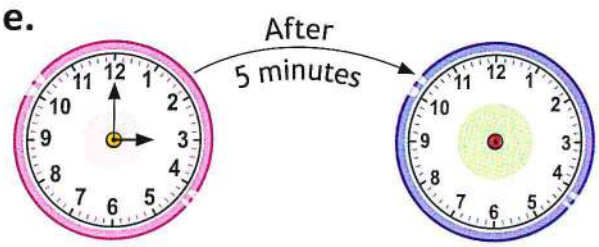
a. After 10 minutes

b. After 35 minutes

c. After 25 minutes

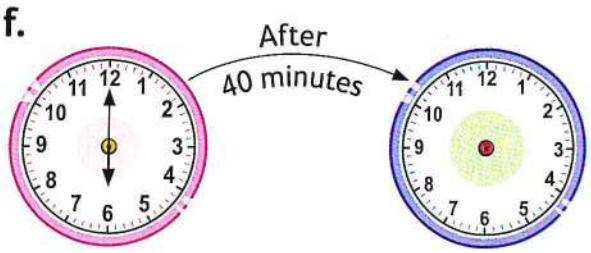
d. After 50 minutes

e.



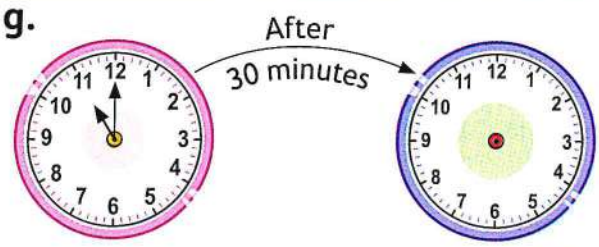
It is _____ ___ : ___

f.



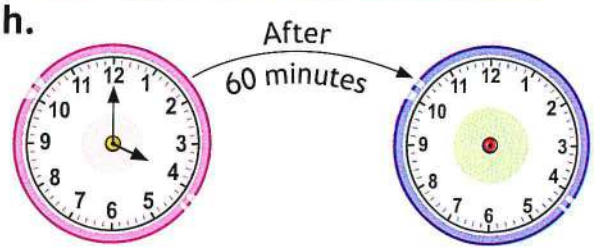
It is _____ ___ : ___

g.



It is _____ ___ : ___

h.



It is _____ ___ : ___

5 If the start time is 03 : 00, answer as the example.

Example :

What number will the minute hand point to when 35 minutes have passed ? 7

a. What number will the minute hand point to when 10 minutes have passed ? _____

b. What number will the minute hand point to when 25 minutes have passed ? _____

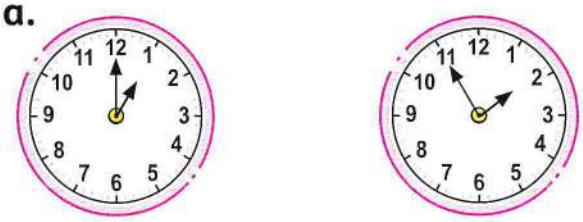
c. What number will the minute hand point to when 40 minutes have passed ? _____

d. What number will the minute hand point to when 5 minutes have passed ? _____

e. What number will the minute hand point to when 60 minutes have passed ? _____

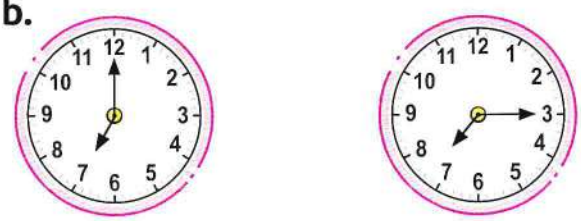
6 Calculate the elapsed time between the two clocks.

a.



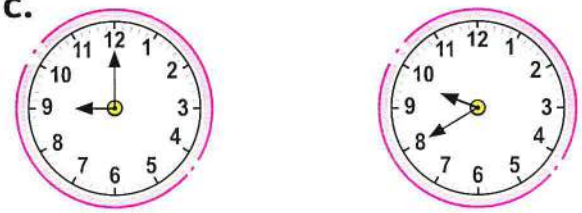
Elapsed time _____

b.



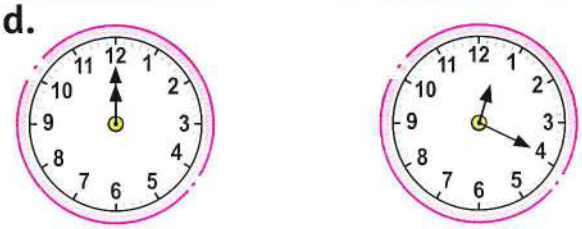
Elapsed time _____

c.



Elapsed time _____

d.



Elapsed time _____

e.

Elapsed time _____

f.

Elapsed time _____

g.

Elapsed time _____

h.

Elapsed time _____

7 Answer the following.

a. A football match started at

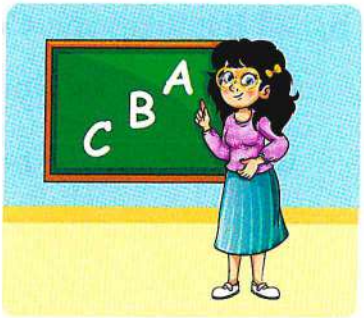
The first round ended at

For how long did the first round take ?

The first round took _____ minutes.

b. Our English lesson started at

It finished at



For how long did English lesson take ?

English lesson took _____ minutes.

---

c. 📖 Your mom puts muffins in the oven at 7:00

When you take them out, the clock looks like this :

How many minutes did it take to bake the muffins ?

---

d. 📖 You leave school at 3:00 and when you get home the clock looks like this :

How many minutes did it take you to walk home ?

---

e. John wakes up at 7 o'clock.

He gets ready at

How many minutes does he take to get ready ?

He takes _____ minutes.

---

8 **Draw the hands on the clock to show the time in each of the following.**

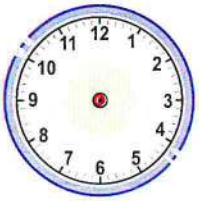
a. Yara started playing tennis at 5:00

She played for 35 minutes.

What time did she finish ?

b. 📖 If it takes you 45 minutes to walk home from school and you leave at 3:00,

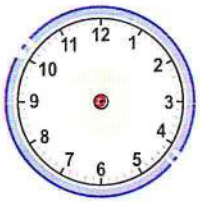
what time will it be when you get home ?



c. The train to Alexandria arrived at 9:00

It left the station 55 minutes earlier to get to Alexandria.

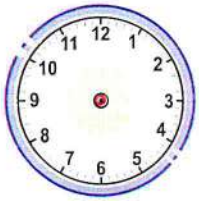
What time did the train leave the station ?



d. A T.V. show ended at 8:00

It lasted for half hour.

What time did the T.V. show start ?

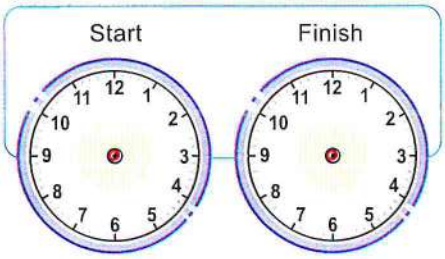


Challenge

9 Salma's piano lesson begins at 4:15

It lasts for 30 minutes.

At what time does her lesson end ?



_____ : _____

Place a smiley face

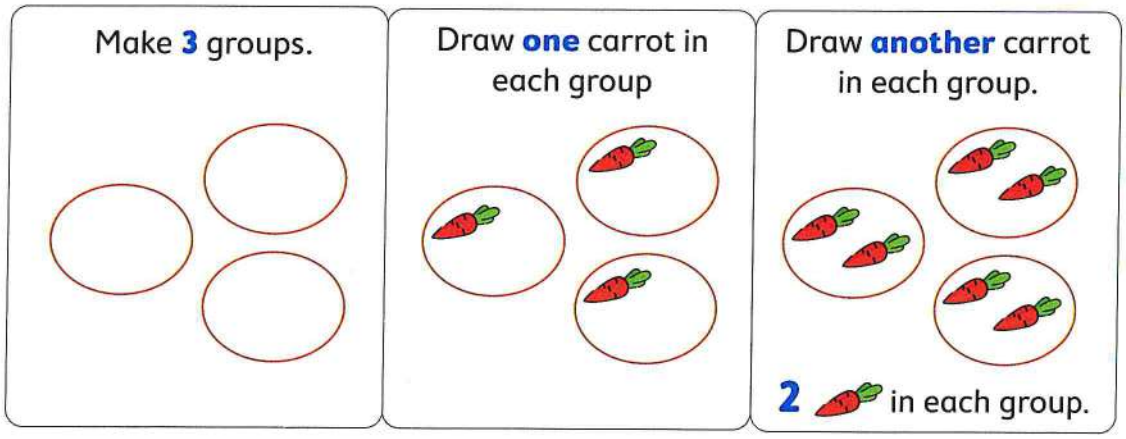
Lessons

8 & 9

- **Division**
- **Applications on division**

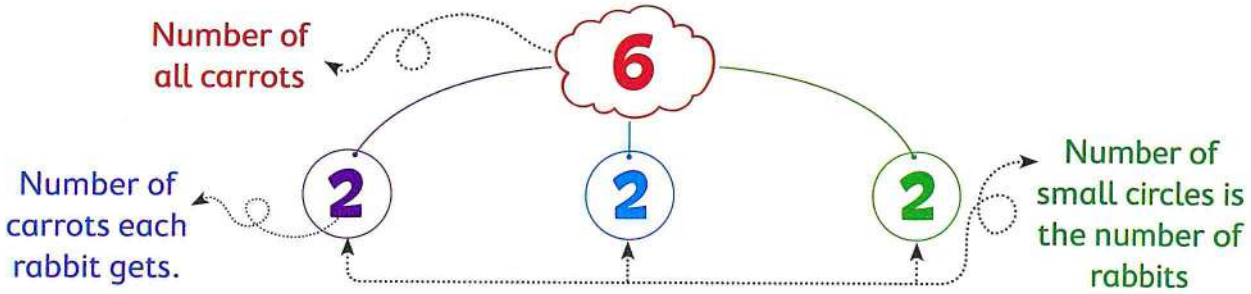
Learn What is the division?

- Division is to separate some things in equal groups.
- To share things equally, you can divide.
- Hend has 6 carrots to feed the rabbits.
- There are 3 rabbits.
- How many carrots does each rabbit get ?



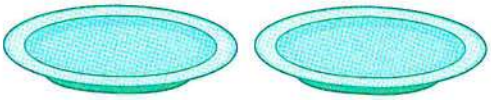
So, each rabbit gets 2 carrots.

- The following model is called a **part - part - whole** to represent the sharing problem (Division).



Check

Draw to show 8 eggs divided among 2 plates.



Notes for parents

- Ask your child to use 10 objects to make equal groups.

Exercise 16

On Lessons 8 & 9

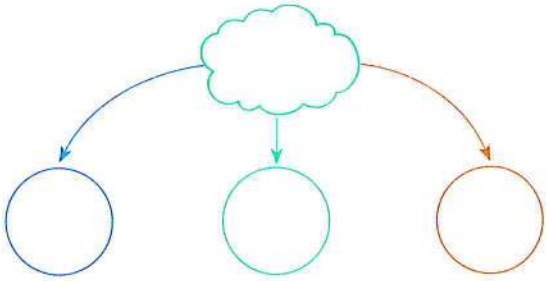
- **Division**
- **Applications on division**

From the school book

1 **Draw to show equal groups. Fill in the part - part - whole model. Complete.**

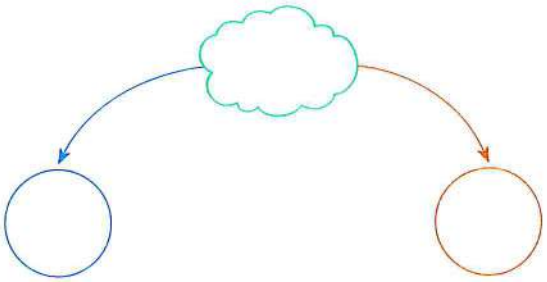
a. 9 coins divided among 3 money boxes.

Each money box has _____ coins.



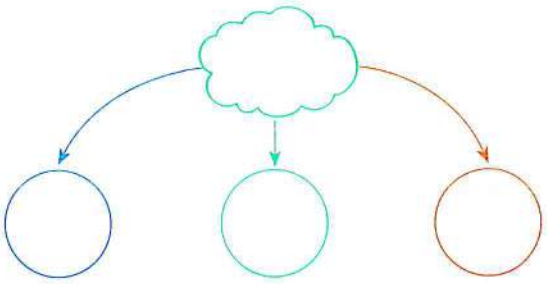
b. 6 pencils divided among 2 pencil cases.

Each pencil case has _____ pencils.



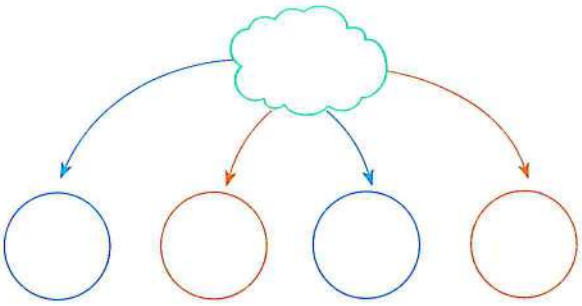
c. 12 oranges divided among 3 plates.

Each plate has _____ oranges.

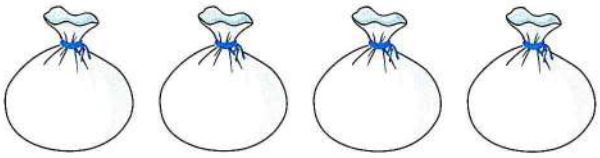


d. There are 16 fish that need to be placed in 4 bowls.

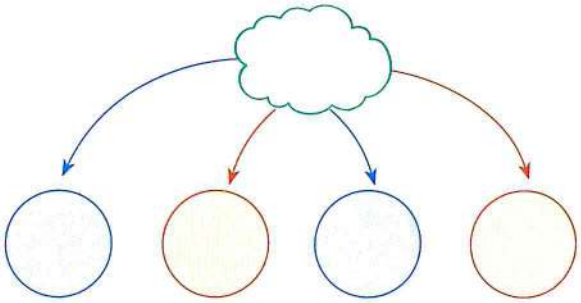
Each bowl has _____ fish.



e. 8 marbles divided among 4 bags.

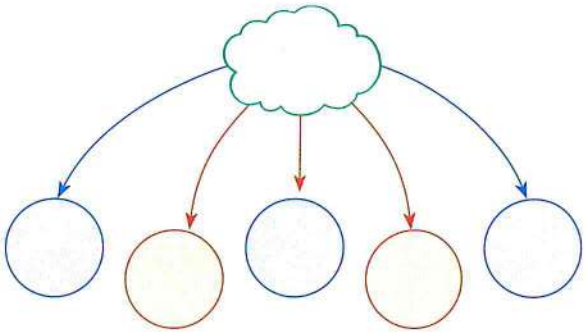


Each bag has _____ marbles.



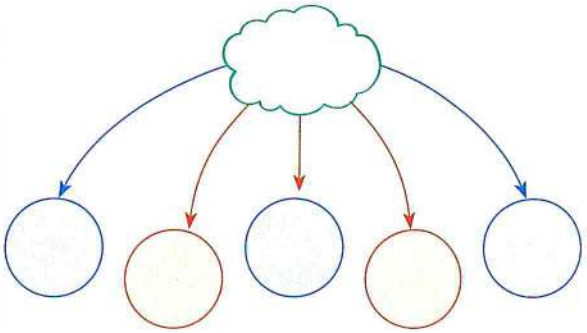
f. Sameh is preparing gift baskets. He has 20 oranges that need to be divided equally between 5 baskets.

Each basket has _____ oranges.



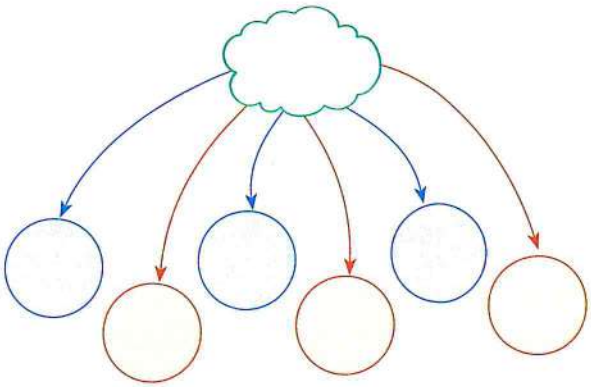
g. 15 toys divided among 5 boxes.

Each box has _____ toys.



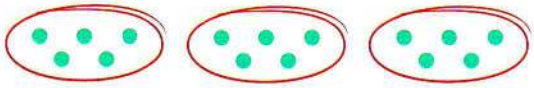
h. The teacher has 36 crayons to share equally between 6 students.

Each cup has _____ crayons.



2 Draw to show your work.
Write how many in each group. The first one is done for you.

a. Divide (15) • into (3) equal groups.



5 in each group.

b. Divide (8) • into (4) equal groups.

_____ in each group.

c. Divide (14) • into (2) equal groups.

_____ in each group.

d. Divide (3) • into (3) equal groups.

_____ in each group.

3 Solve the following problems.
You can draw a mathematical picture or use counters to help you.

a. Rania has **18** eggs and wants to put them equally in **3** plates.
How many eggs are there in each plate ?

_____

_____

b. Each cat needs **2** fish for lunch.
How many cats can we feed with 12 fish ?

_____

_____

Work area

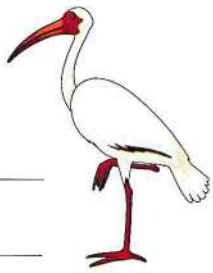
c. Bassem has **28** stamps.
He put an equal number of his stamps on each of **4** pages.

How many stamps are on each page ?

_____

_____

d. Each ibis will eat **3** worms. You have **18** worms.



How many ibis can be fed ?

_____

_____

e. Each jackal must eat **6** insects.
There are **24** insects.

How many jackals can be fed ?

_____

_____

f. A class has **20** pupils.
If they are divided into rows of **5** pupils each.

How many rows are there ?

_____

_____

Work area

g. Each crocodile wants to eat **5** fish.
There are **25** fish.

How many crocodiles can be fed ?

_____

_____

h. Shady saw some horses in a park
He counted **36** legs.

How many horses did Shady see ?

_____

_____

Work area

Challenge

4 Amgad has 13 lemons.
Can he put all of them in two boxes, each of them has an equal number of lemons ? Explain.

_____

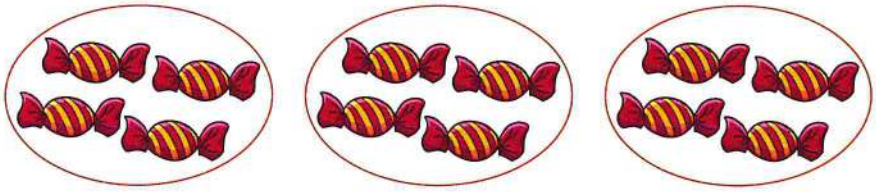
Place a smiley face

Lesson 10

The relation between multiplication and division

Learn 1 Division symbol

- There are 12 sweets.
- You want to divide them among 3 groups and find the sweets number in each group.



- There are 4 sweets in each group.
- When you divided them in equal groups, you can express it by the division sentence.

What you say : 12 divided by 3 equals 4

What you write : 12 ÷ 3 = 4

This is a division sentence

Division symbol

Quotient : The answer of the division problem.

Check

Write the result of each of the following.

a. 16 ÷ 2 = _____

b. 20 ÷ 5 = _____

c. 24 ÷ 3 = _____

d. 10 ÷ 2 = _____

e. 28 ÷ 4 = _____

f. 50 ÷ 10 = _____

g. 24 ÷ 6 = _____

h. 64 ÷ 8 = _____

i. 42 ÷ 7 = _____

Notes for parents

- Tell your child that the answer of division is called "Quotient".

Learn 2 Relation between multiplication and division

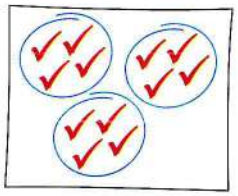
- Nader drew 12 ✓s in two ways.
- He wrote two multiplication sentences about his picture.

$3 \times 4 = 12$ "Think: 3 groups of 4 is 12"

$4 \times 3 = 12$ "Think: 4 groups of 3 is 12"

Vocabulary

Fact family
It is a set of related multiplication and division number sentences.

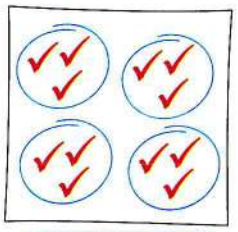


$3 \times 4 = 12$

- He can also write two division sentences about his picture.

$12 \div 3 = 4$ "Think: 12 divided into 3 groups of 4"

$12 \div 4 = 3$ "Think: 12 divided into 4 groups of 3"



$4 \times 3 = 12$

- These four number sentences form a fact family of the numbers 3 , 4 and 12.

Example 1

Complete.

a. $15 \div$ _____ $= 5$

b. _____ $\div 4 = 6$

c. $6 \times$ _____ $= 30$

d. _____ $\times 2 = 18$

Solution

a. $15 \div$ 3 $= 5$ [Hint : $5 \times 3 = 15$]

b. 24 $\div 4 = 6$ [Hint : $6 \times 4 = 24$]

c. $6 \times$ 5 $= 30$

d. 9 $\times 2 = 18$

Notes for parents

- Remind your child of the commutative property of multiplication.

Example 2

Write the suitable sign "> , = or <".

a. $35 \div 7$ ☐ 5×7

b. 4×2 ☐ $42 \div 6$

c. $28 \div 4$ ☐ $4 + 4$

d. $10 \div 10$ ☐ 10×0

e. 2×3 ☐ $24 \div 4$

f. 4×5 ☐ 10×2

Solution

a. $\overset{5}{35 \div 7}$ < $\overset{35}{5 \times 7}$

b. $\overset{8}{4 \times 2}$ > $\overset{7}{42 \div 6}$

c. $\overset{7}{28 \div 4}$ < $\overset{8}{4 + 4}$

d. $\overset{1}{10 \div 10}$ > $\overset{0}{10 \times 0}$

e. $\overset{6}{2 \times 3}$ = $\overset{6}{24 \div 4}$

f. $\overset{20}{4 \times 5}$ = $\overset{20}{10 \times 2}$

Check

Join the equal answers.

a. $18 \div 3$ — $10 \div 5$

b. $16 \div 2$ — 2×3

c. $8 \div 4$ — $4 \div 1$

d. $5 + 5$ — $4 + 4$

e. 1×4 — $20 \div 2$

• Ask your child to tell you how to use arrays or draw pictures to solve the division problems.

Exercise 17

On Lesson 10

The relation between multiplication and division

From the school book

1 Find the result.

a. 8 ÷ 2 = _____

b. 12 ÷ 6 = _____

c. 15 ÷ 3 = _____

d. 16 ÷ 4 = _____

e. 40 ÷ 5 = _____

f. 20 ÷ 2 = _____

g. 40 ÷ 10 = _____

h. 21 ÷ 7 = _____

i. 24 ÷ 4 = _____

j. 42 ÷ 6 = _____

k. 12 ÷ 3 = _____

l. 8 ÷ 1 = _____

m. 72 ÷ 8 = _____

n. 56 ÷ 7 = _____

o. 10 ÷ 10 = _____

p. 49 ÷ 7 = _____

q. 35 ÷ 5 = _____

r. 36 ÷ 6 = _____

s. 5 ÷ 5 = _____

t. 50 ÷ 5 = _____

u. 36 ÷ 9 = _____

v. 4 ÷ 1 = _____

w. 24 ÷ 6 = _____

x. 27 ÷ 3 = _____

y. 28 ÷ 4 = _____

z. 18 ÷ 3 = _____

2 Choose the correct answer.

a. $24 \div 3 =$ _____ (5 or 6 or 7 or 8)

b. $45 \div 5 =$ _____ (6 or 7 or 8 or 9)

c. $36 \div 4 =$ _____ (9 or 8 or 7 or 6)

d. $70 \div 7 =$ _____ (4 or 6 or 8 or 10)

e. $18 \div 6 =$ _____ (2 or 3 or 4 or 5)

f. $2 \div 2 =$ _____ (0 or 1 or 2 or 3)

g. How many groups of 5 are in 35 ? (7 or 8 or 9 or 10)

h. How many groups of 3 are in 15 ? (4 or 3 or 5 or 1)

i. If 10 crayons divided among 5 boxes. Then, each box has _____ crayons.
(1 or 2 or 3 or 4)

j. If 21 apples divided among 3 plates. Then, each plate has _____ apples.
(5 or 6 or 7 or 8)

3 Put the suitable sign "> , = or <".

a. $32 \div 8$ ◯ $8 \div 2$

b. $27 \div 3$ ◯ $3 + 3 + 3 + 3$

c. $54 \div 6$ ◯ 0×9

d. 6×1 ◯ $6 \div 1$

e. 8×8 ◯ $8 \div 8$

f. 4×10 ◯ $40 \div 5$

g. 6×6 ◯ 4×9

h. $25 \div 5$ ◯ $40 \div 5$

4 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. $15 \div 3 = 5$ ( )

b. $28 \div 4 = 6$ ( )

c. $7 \div 7 = 7$ ( )

d. $8 \div 1 = 8$ ( )

e. $24 \div 4 = 24 \div 8$ ( )

f. $12 \div 4 = 24 \div 8$ ( )

g. $8 \div 8 = 5 \div 5$ ( )

h. $36 \div 4 > 40 \div 4$ ( )

i. $6 \div 3 > 2$ ( )

j. $10 \div 5 < 2$ ( )

k. If Sara has 20 lemons and she wants to put them equally in 5 bags. Then, there are 4 lemons in each bag. ( )

l. If A class has 24 pupils and they are divided into rows of 4 pupils each. Then, there are 5 pupils in each row. ( )

5 Complete.

a. $4 \times \square = 12$

$12 \div 4 = \square$

b. $2 \times \square = 14$

$14 \div 2 = \square$

c. $3 \times \square = 27$

$27 \div 3 = \square$

d. $7 \times \square = 21$

$21 \div 7 = \square$

e. $6 \times \square = 54$

$54 \div 6 = \square$

f. $\square \times 4 = 32$

$32 \div 4 = \square$

6 Find the missing number.

a. $\square \div 3 = 4$

b. $\square \div 6 = 5$

c. $\square \div 5 = 3$

d. $7 \times \square = 28$

e. $\square \times 8 = 64$

f. $2 \times \square = 18$

g. $30 \div \square = 6$

h. $56 \div \square = 8$

i. $9 \div \square = 1$

7 Write the fact family for each set of numbers. The first one is done for you.

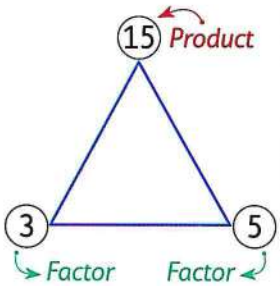
a.

3 × 5 = 15

5 × 3 = 15

15 ÷ 3 = 5

15 ÷ 5 = 3



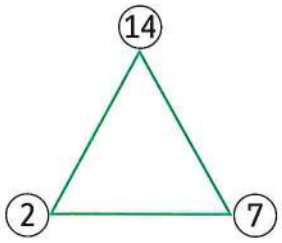
b.

___ × ___ = ___

___ × ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___



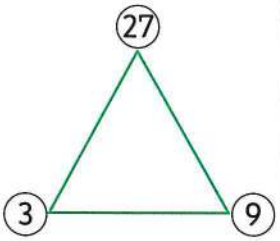
c.

___ × ___ = ___

___ × ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___



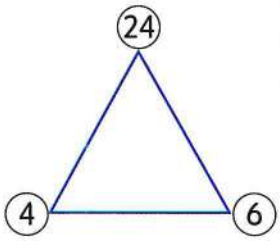
d.

___ × ___ = ___

___ × ___ = ___

___ ÷ ___ = ___

___ ÷ ___ = ___



8 Write the other facts from each family.

a. 4 × 9 = 36

b. 40 ÷ 5 = 8

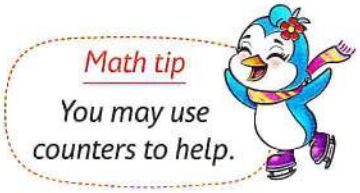
c. 6 × 3 = 18

d. 2 × 8 = 16

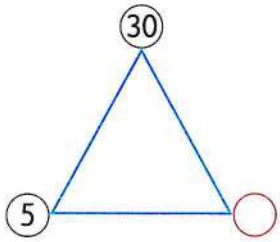
e. 13 ÷ 1 = 13

f. 14 ÷ 2 = 7

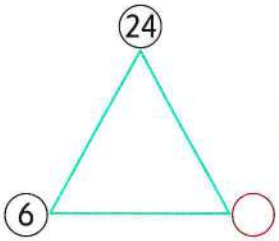
9 Find the missing factor in each triangle below. Then write the four numbers sentences that go with the fact family.



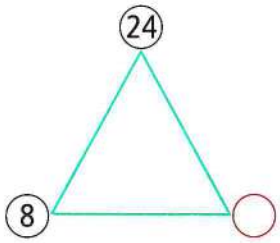
a.



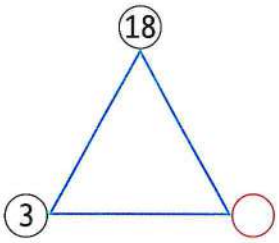
b.



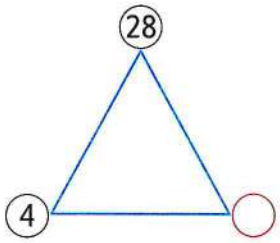
c.



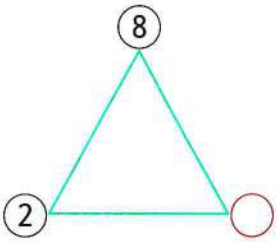
d.



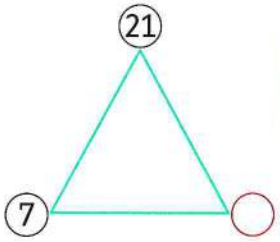
e.



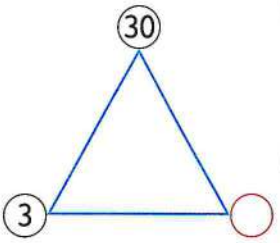
f.



g.



h.



10 Choose which number sentence is not included in the same fact family.

a. 9 × 4 = 36

- ◯ 4 × 9 = 36
- ◯ 36 ÷ 4 = 9
- ◯ 36 ÷ 6 = 6
- ◯ 36 ÷ 9 = 4

b. 18 ÷ 3 = 6

- ◯ 3 × 6 = 18
- ◯ 18 ÷ 6 = 3
- ◯ 6 × 3 = 18
- ◯ 9 × 2 = 18

c. 24 ÷ 6 = 4

- ◯ 4 × 6 = 24
- ◯ 24 ÷ 3 = 8
- ◯ 6 × 4 = 24
- ◯ 24 ÷ 4 = 6

Challenge

11 Choose the three numbers that can make a fact family.
Then write the four related multiplication and division sentences.

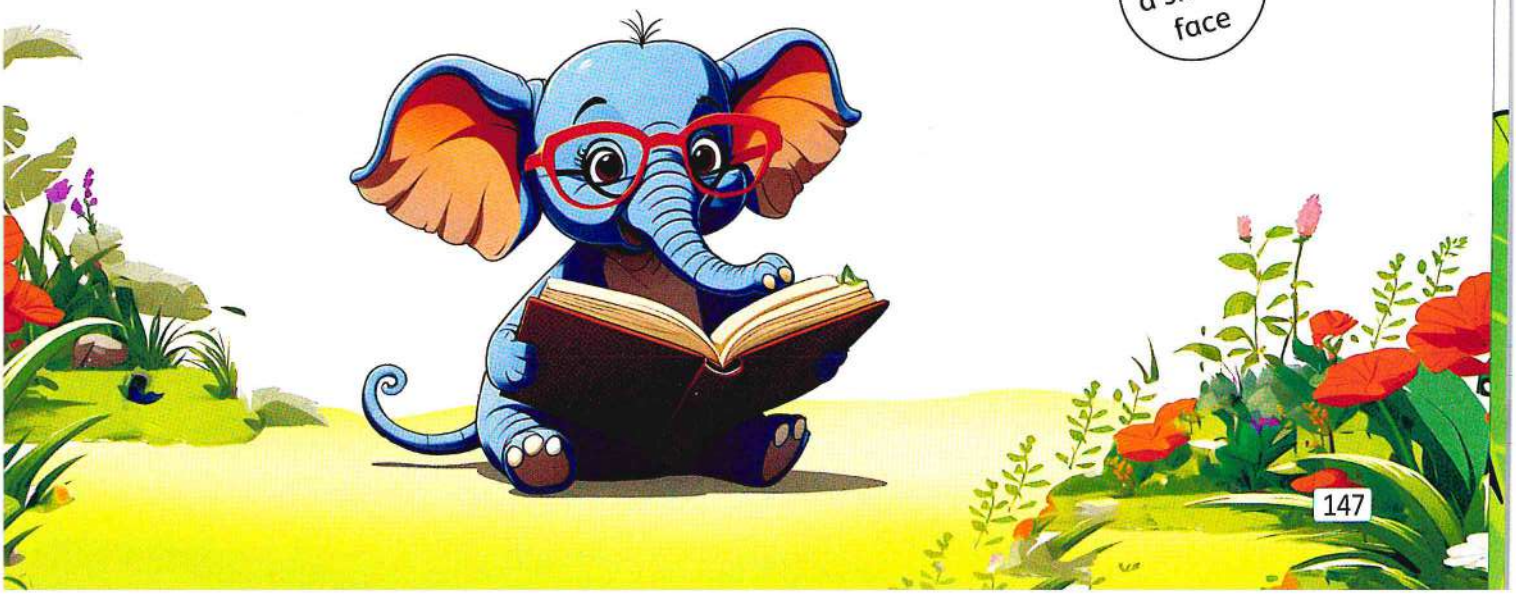
a. 4 6 30 36 9

_____
_____
_____
_____

b. 9 2 5 12 10

_____
_____
_____
_____

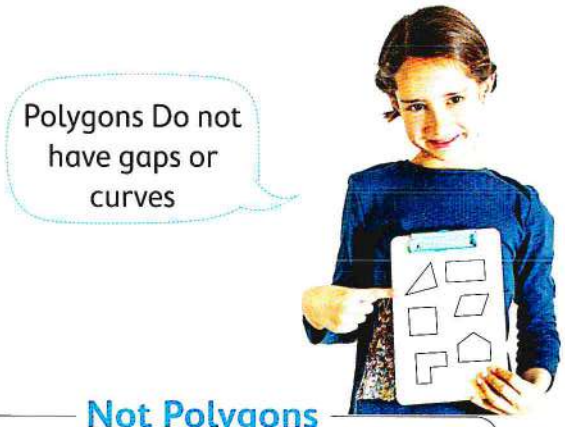
Place a smiley face



Lesson 1

Polygons

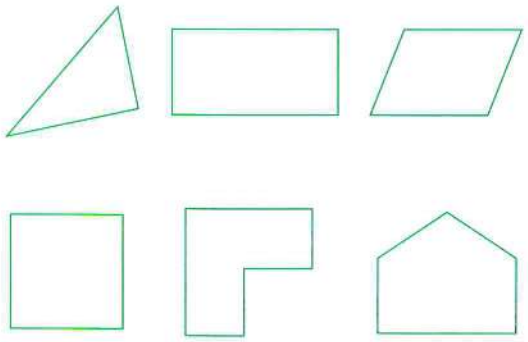
Learn 1 Polygons



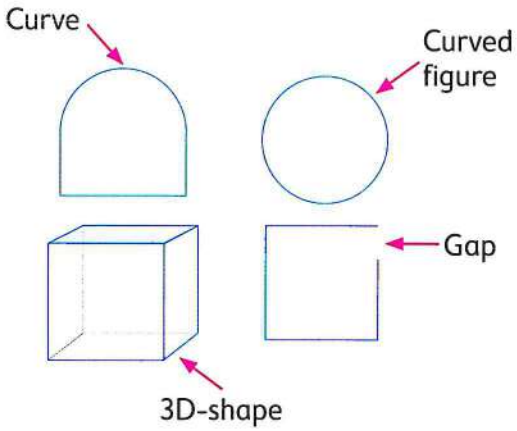
- Polygons are closed two-dimensional figures.
- Closed figures are shapes do not have any gaps or curves between the lines that make it.

Examples :

Polygons

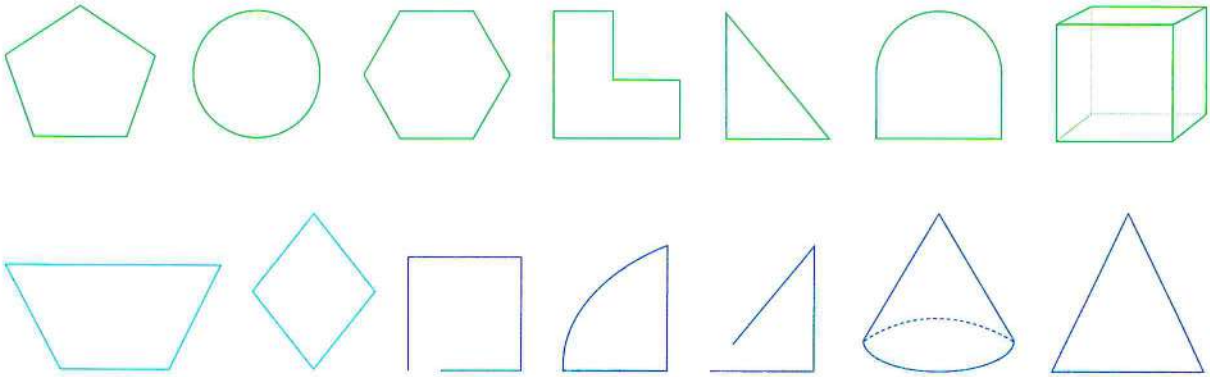


Not Polygons



Check

Are the following figures polygons ? Circle the polygons. Explain why or why not.

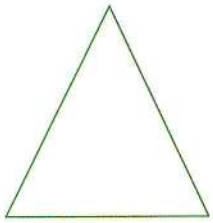


Notes for parents

- Let your child recognize that three-dimensional shapes are not polygons.

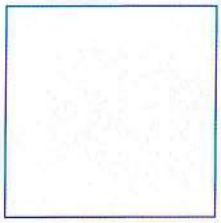
Learn 2 Identify the attributes of two-dimensional shapes

Triangle



3 sides
3 vertices

Square

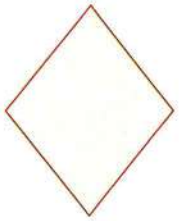


4 sides
4 vertices

Rectangle

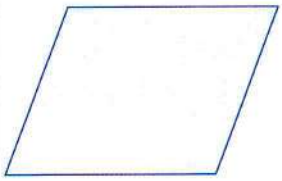
4 sides
4 vertices

Rhombus



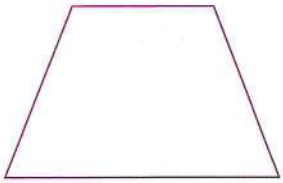
4 sides
4 vertices

Parallelogram



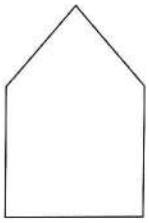
4 sides
4 vertices

Trapezium



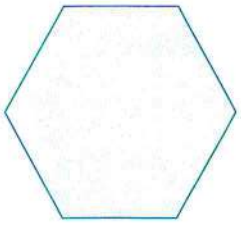
4 sides
4 vertices

Pentagon



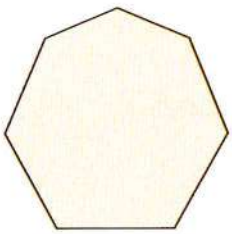
5 sides
5 vertices

Hexagon



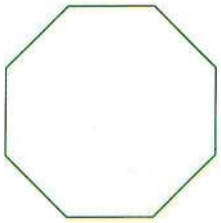
6 sides
6 vertices

Heptagon



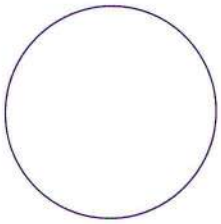
7 sides
7 vertices

Octagon



8 sides
8 vertices

Circle



0 sides
0 vertices

Note

The number of sides = The number of vertices

• Ask your child to count the sides and vertices of each shape and decide if it is a polygon or not.

Check

2D means two-dimensional figures.

Identify each 2D shape, and write the number of sides and vertices.

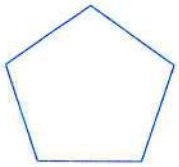
a.

Sides ☐

Vertices ☐

Name : _____

b.

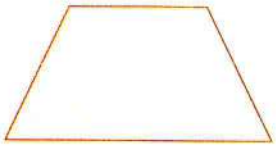


Sides ☐

Vertices ☐

Name : _____

c.

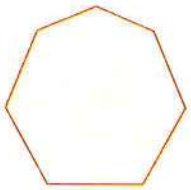


Sides ☐

Vertices ☐

Name : _____

d.

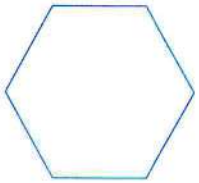


Sides ☐

Vertices ☐

Name : _____

e.

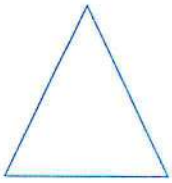


Sides ☐

Vertices ☐

Name : _____

f.

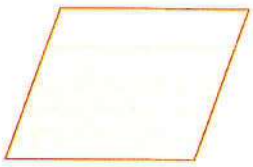


Sides ☐

Vertices ☐

Name : _____

g.



Sides ☐

Vertices ☐

Name : _____

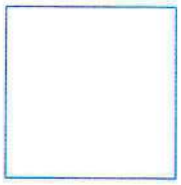
h.

Sides ☐

Vertices ☐

Name : _____

i.

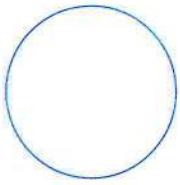


Sides ☐

Vertices ☐

Name : _____

j.



Sides ☐

Vertices ☐

Name : _____

Notes for parents

- Ask your child how many sides or vertices the octagon has.(8), is the octagon a polygon ?

Exercise
18
On Lesson 1

Polygons

1 Put (✓) if the shape is a polygon , and put (✗) if it is not polygon.

a. ( )	b. ( )	c. ( )	d. ( )	e. ( )
f. ( )	g. ( )	h. ( )	i. ( )	j. ( )
k. ( )	l. ( )	m. ( )	n. ( )	o. ( )

2 Draw a polygon with.

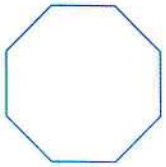
a. 3 sides

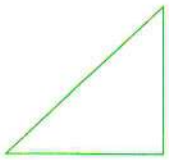
b. 4 vertices

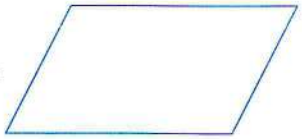
c. 5 sides

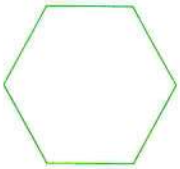
d. 6 vertices

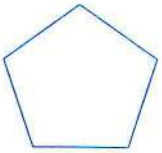
3 Match.

a. 

b. 

c. 

d. 

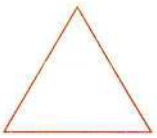
e. 

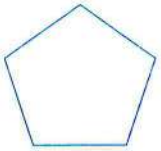
f.

- Triangle
- Parallelogram
- Octagon
- Trapezium
- Pentagon
- Hexagon

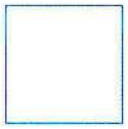
4 Write the name of each figure.

a.

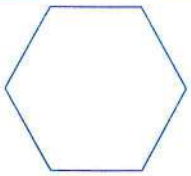
b. 

c. 

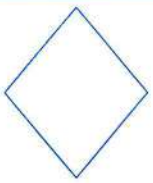
d.

e. 

f.

g. 

h.

i. 

5 **Complete the table.**
Check if the shape is a polygon or not.

Shape	Name	Attributes		Polygon
		Number of sides	Number of vertices	
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

6 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. A polygon is an open two-dimensional figure. ( )

b. The hexagon has 6 sides. ( )

c. A circle is a polygon. ( )

d. The parallelogram is a polygon. ( )

e. △ is called a triangle. ( )

f. The pentagon has more than 5 sides. ( )

g. Any polygon does not have gaps or curves. ( )

h. In any polygon : the number of sides = the number of vertices. ( )

7 Complete.

a. The triangle has _____ sides and _____ vertices.

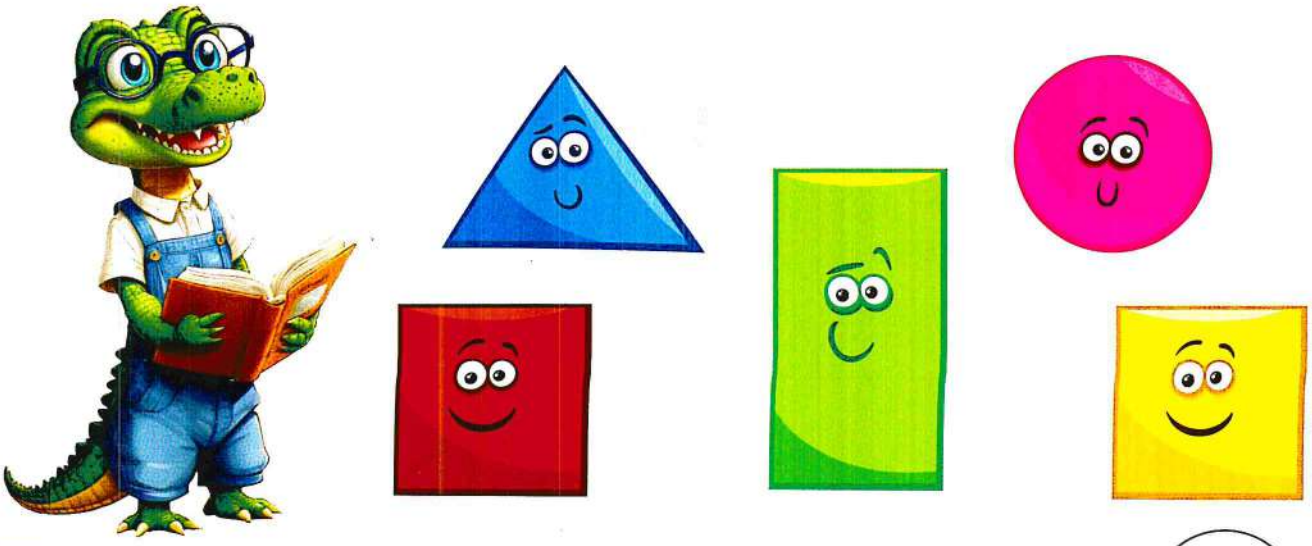
b. The polygon which has _____ vertices is called octagon.

c. The pentagon has _____ vertices and _____ sides.

d. The polygon which has _____ sides is called heptagon.

e. The _____ has 6 sides.

f. The _____ has 7 vertices.



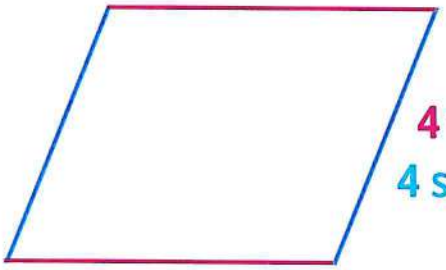
Place a smiley face

Lesson 2

Properties of quadrilaterals

Learn Quadrilateral and parallelogram

- A quadrilateral is a polygon with 4 straight sides and 4 vertices.
- A parallelogram is a quadrilateral shape (has four sides) that has each two opposite sides equal in length and parallel.

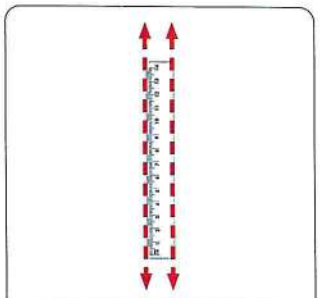


4 Vertices

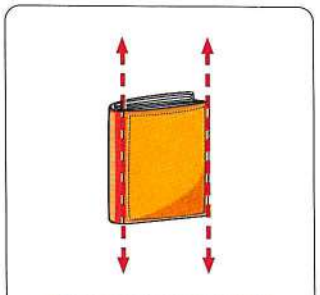
4 Sides

The blue lines are equal in length and parallel to each other and the red lines are equal in length and parallel to each other.

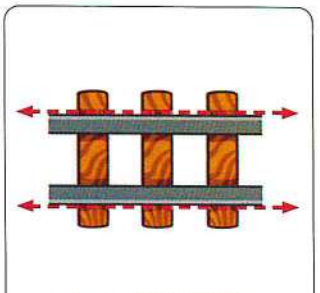
Examples for parallel lines :



The opposite edges of a ruler



The opposite edges of a book



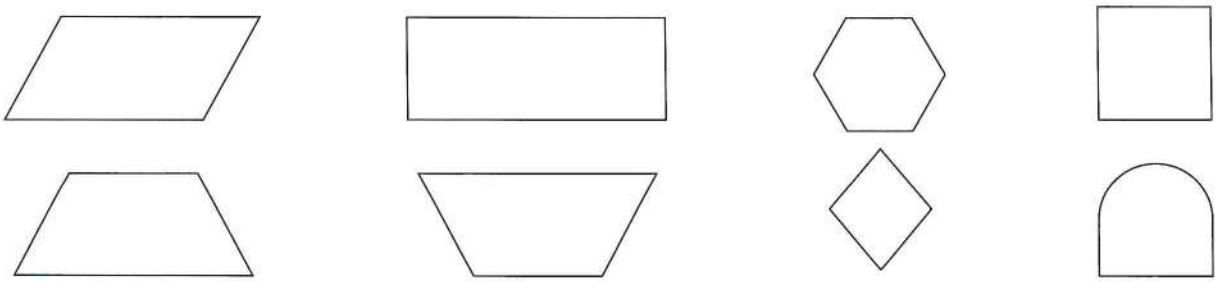
The train tracks

Parallel lines can go on forever and never intersect.

Check

All rectangles, squares and rhombuses are also parallelograms.

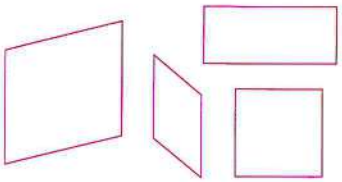
Color the parallelogram of each. Explain why or why not.



Notes for parents

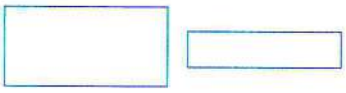
- Let your child recognize that rectangles, squares and rhombuses are also parallelograms.

Examples for quadrilaterals :



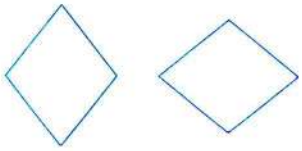
Parallelogram

- 2 pairs of parallel sides
- 2 pairs of equal sides
- 4 vertices



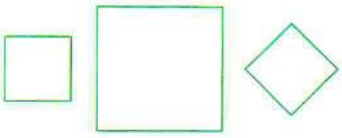
Rectangle

- 2 pairs of parallel sides
- 2 pairs of equal sides
- 4 similar vertices



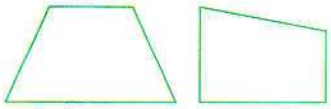
Rhombus

- 2 pairs of parallel sides
- 4 equal sides
- 4 vertices



Square

- 2 pairs of parallel sides
- 4 equal sides
- 4 similar vertices



Trapezium

- exactly 1 pair of parallel sides
- lengths of sides may not be the same
- 4 vertices

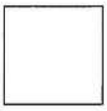
All quadrilaterals are polygons.

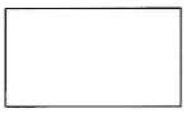
Check

Match each property to all suitable quadrilaterals.

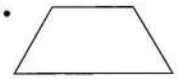
a. 2 pairs of parallel sides

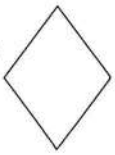
b. 4 equal sides

1. 

2. 

3.

4. 

5. 

c. Exactly 1 pair of parallel sides

d. 4 vertices similar

Notes for parents

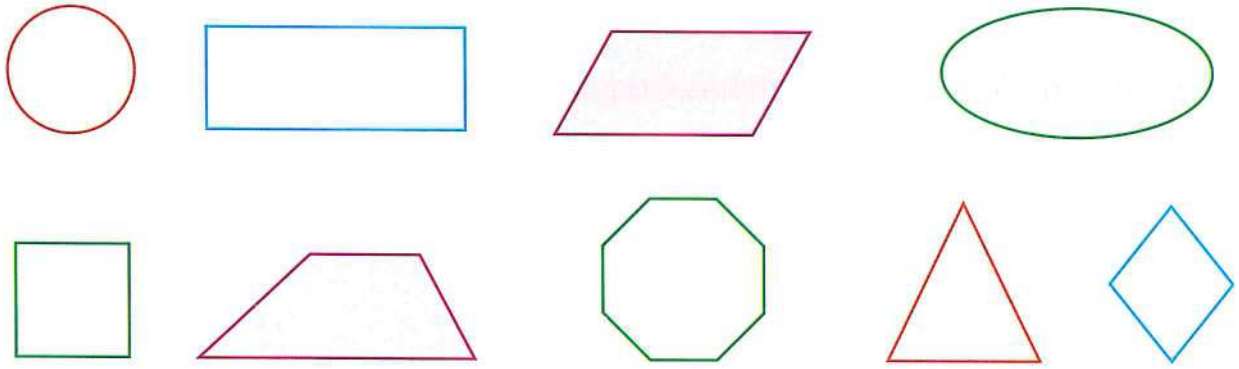
- Ask your child to mention examples for quadrilaterals and draw more quadrilateral and define it.

Exercise 19

On Lesson 2

Properties of quadrilaterals

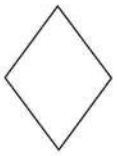
1 **Cross out the shape that does not show a parallelogram. Explain why , write the examples that show a parallelogram.**

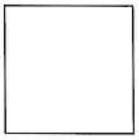


• Examples of parallelogram : _____ , _____ , _____

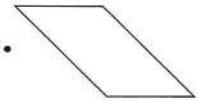
2 **Write a name for each quadrilateral.**

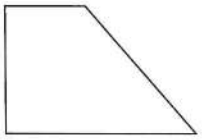
a. _____

b.  _____

c.  _____

d. _____

e.  _____

f.  _____

3 **Choose the correct answer.**

a. The quadrilateral has _____ vertices. (1 or 2 or 3 or 4)

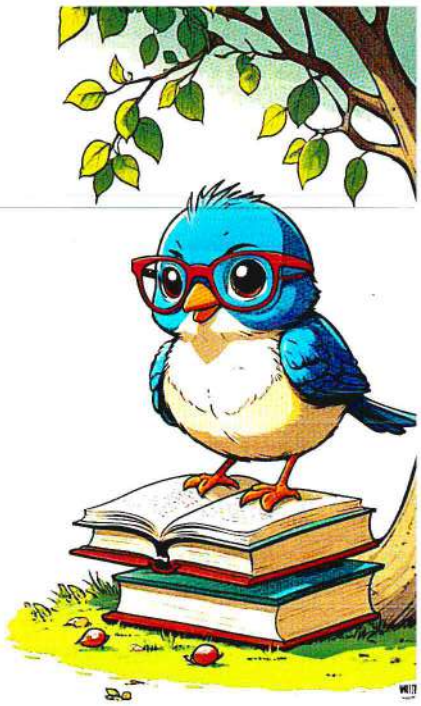
b. The parallelogram has _____ pairs of equal sides. (1 or 2 or 3 or 4)

c. The square has _____ equal sides. (1 or 2 or 3 or 4)

d. The rectangle has _____ similar vertices. (1 or 2 or 3 or 4)

e. The trapezium has exactly _____ pair of parallel sides. (1 or 2 or 3 or 4)

f. The rhombus has _____ vertices. (1 or 2 or 3 or 4)



4 Complete. (write the name of the shape)

a. The quadrilateral which has only 1 pair parallel sides is called _____

b. The polygon which has 4 sides is called _____

c. The quadrilateral which has 4 equal sides and 4 similar vertices is called _____

d. The quadrilateral which has 4 equal sides and 4 not similar vertices is called _____

e. The quadrilateral which has 4 similar vertices and 4 not equal sides is called _____

5 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. The quadrilateral is a polygon which has 4 sides. ( )

b. The parallelogram has exactly 1 pair of parallel sides. ( )

c. The square has 4 similar vertices. ( )

d. The rectangle's vertices are not similar. ( )

e. The rhombus has 2 pairs of parallel sides. ( )

f. The trapezium has more than 1 pair of parallel sides. ( )

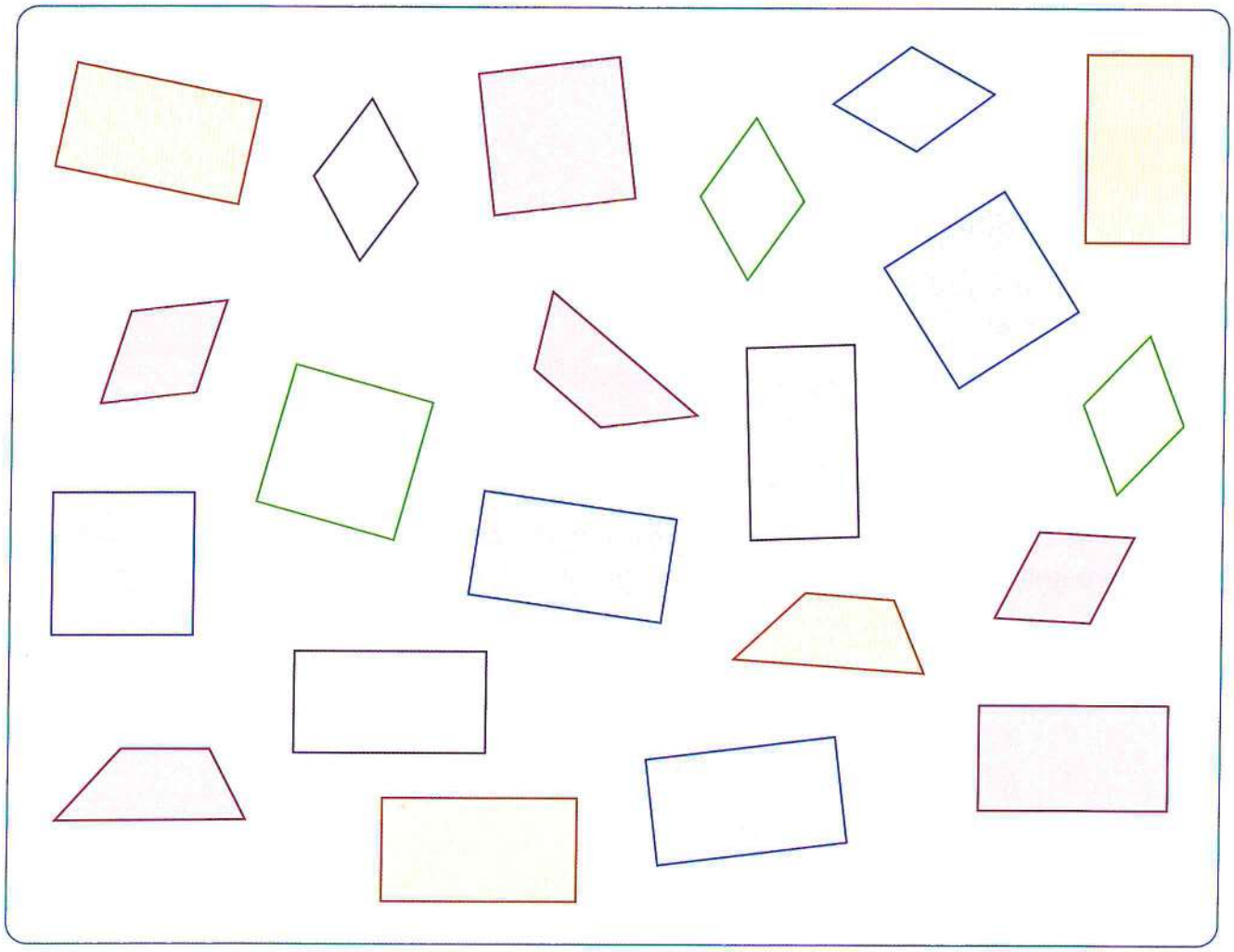
g. The circle is a polygon which has no vertices. ( )

h. The rhombus has 4 similar vertices. ( )

i. The square has 2 pairs of parallel sides. ( )

j. All rectangles are parallelograms. ( )

6 Use the following figures to fill in the bar graph below.



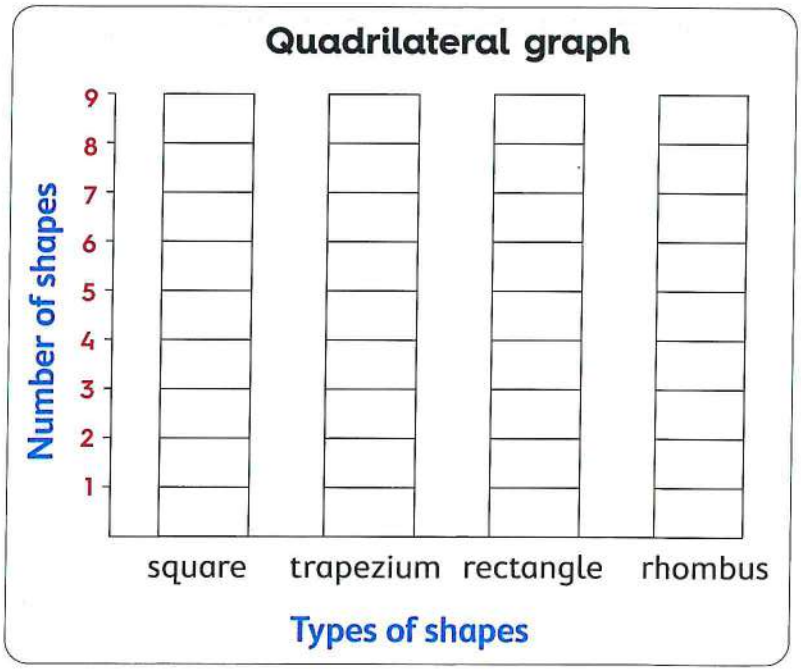
From the graph :

a. Which quadrilateral is the most ? _____

b. Which quadrilateral is the least ? _____

c. How many parallelograms ?

_____



Place a smiley face

Lessons 3 to 5

- **Area**
- **Rectangles with equal area**
- **Area using models**

Learn 1 Area

- Area is the number of square units needed to cover the surface of a figure.
- A square unit is a square with a side length of 1 unit and it is the unit used to measure area.
- You can count or multiply square units to find area.

Counting strategy

To find area of a rectangle, count the squares inside the rectangle.

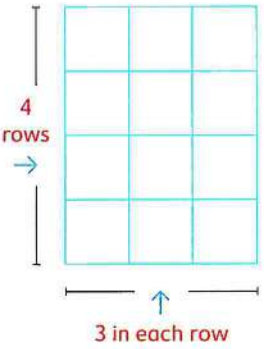
Area = 12 square units

1	2	3
4	5	6
7	8	9
10	11	12

Multiplying strategy (Array)

To find area of rectangle, multiply the number of rows by the number in each row.

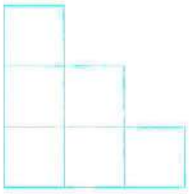
number of rows ↓ 4 × number in each row ↓ 3 = area ↓ 12 square units



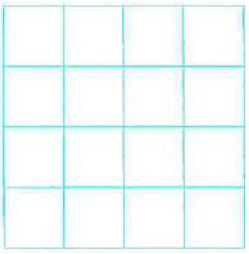
Example 1

Find the area of each of the following figures.

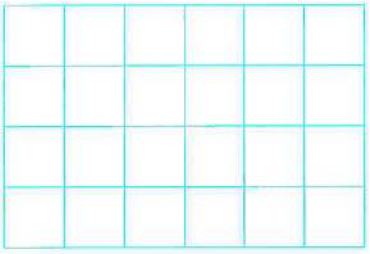
a.



b.

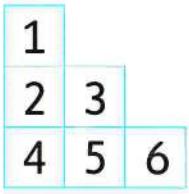


c.



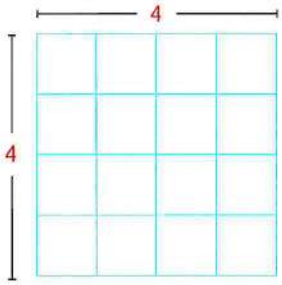
Solution

a.



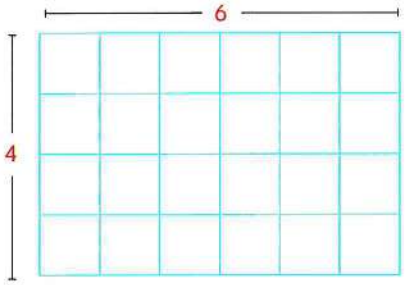
Area = 6 ☐

b.



Area = 4 × 4 = 16 ☐

c.



Area = 4 × 6 = 24 ☐

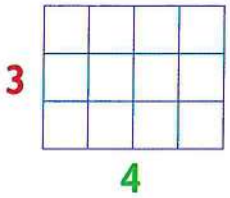
Notes for parents

- Let your child know that there are many strategies to find the area, let him/her discover another strategy.

Learn 2 Rectangles with equal area

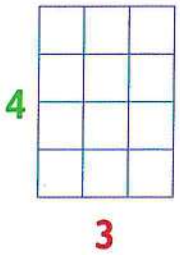
Commutative property of multiplication
$3 \times 4 = 4 \times 3$

- There are more than one rectangle that look different but have the same area.



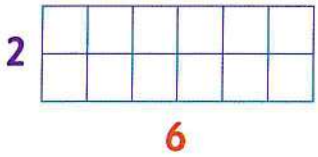
3 rows of 4

Area = 3 × 4 = 12 square units



4 rows of 3

Area = 4 × 3 = 12 square units



2 rows of 6

Area = 2 × 6 = 12 square units

Example 2

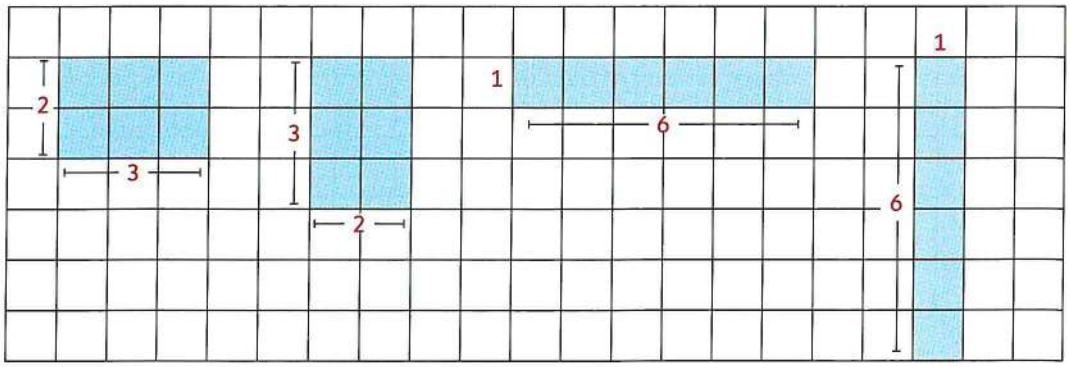
Draw on the grid rectangles with an area of 6 square units.

Solution

To draw rectangles with an area of 6 square units search for 2 numbers their product equals 6. You will find :

$2 \times 3 = 6$ $\quad$ $3 \times 2 = 6$ $\quad$ $1 \times 6 = 6$ $\quad$ $6 \times 1 = 6$

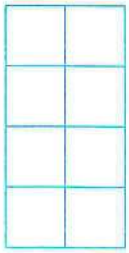
You can draw 4 rectangles.



- Tell your child that area is a part of our daily life it can be used in : purchasing a rug, creating a football field, painting a wall, or laying tiles on a floor.

Check

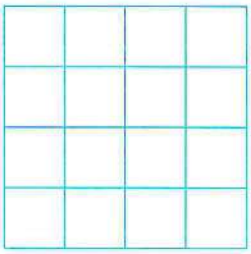
1. How many square units were used to make these figures ?



_____ rows

_____ in each row

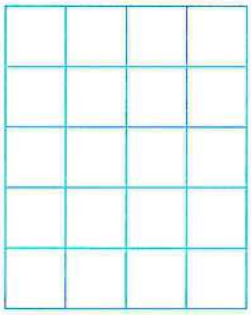
Area = ☐ square units



_____ rows

_____ in each row

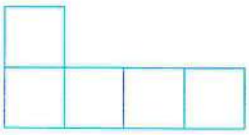
Area = ☐ square units



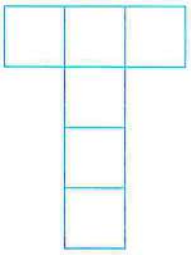
_____ rows

_____ in each row

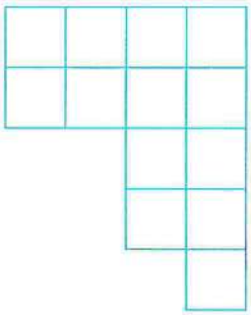
Area = ☐ square units



Area = _____ ☐

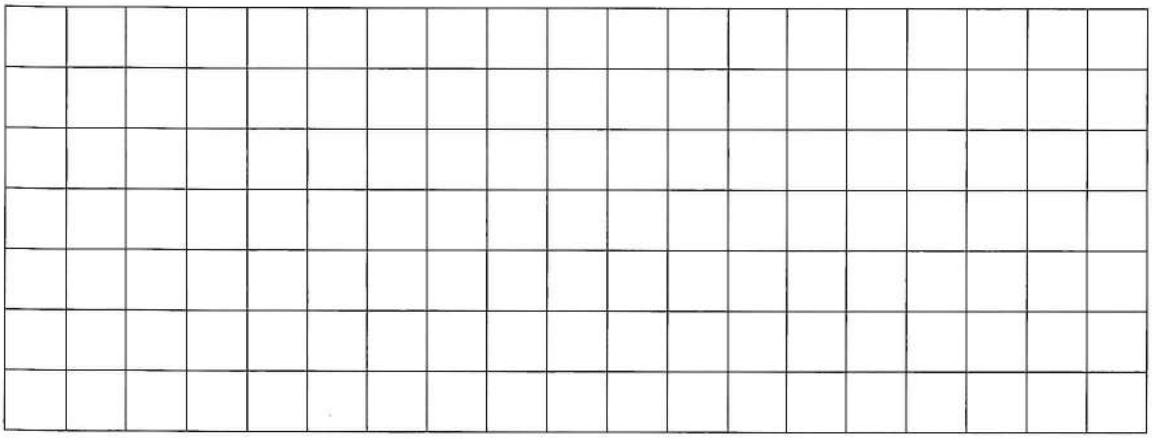


Area = _____ ☐



Area = _____ ☐

2. Draw more rectangles have the same area of 10 square units.



Notes for parents

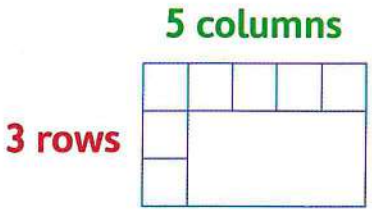
- Help your child calculate the area of each figure using different strategies such as : divide each figure into many parts and calculate the area of each part and combine them all or count the squares one by one.

Learn 3 Area using models

- To calculate the area of a rectangle or a square using models, you can use the dimensions of the figure.
- Dimensions are calculated by the number of rows and the number of columns of the rectangle.

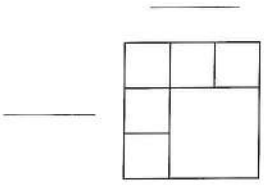
For example :

Area of the rectangle = 3 × 5 = 15 square units



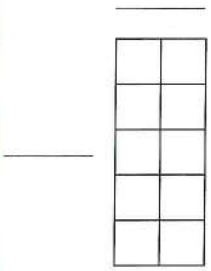
Check

Calculate the total area of each figure.



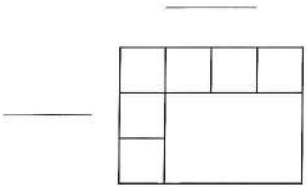
Area = ____ × ____

= ____ square units



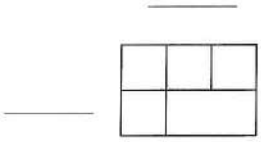
Area = ____ × ____

= ____ square units



Area = ____ × ____

= ____ square units



Area = ____ × ____

= ____ square units

- Ask your child to determine the total area of a rectangle with dimensions 5 units and 4 units and a square with dimension of 5 units.

Exercise 20

On Lessons 3 to 5

- **Area**
- **Rectangles with equal area**
- **Area using models**

From the school book

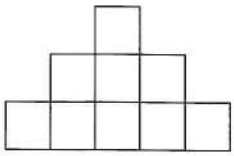
First : Exercises on area

Remember

□ = 1 square unit

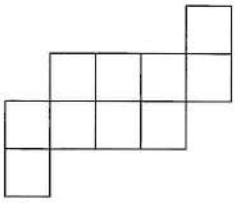
1 Calculate the area of each of the following.

a.



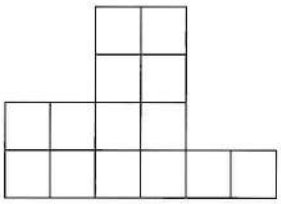
Area = _____ □

b.



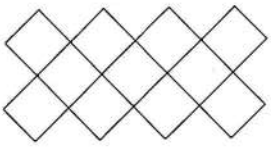
Area = _____ □

c.



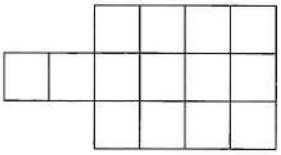
Area = _____ □

d.



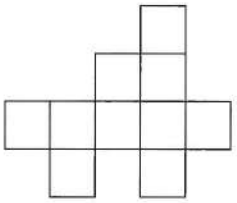
Area = _____ □

e.



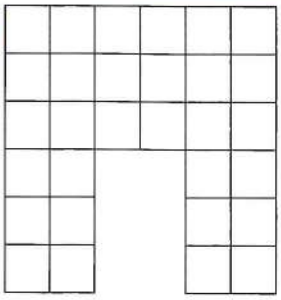
Area = _____ □

f.



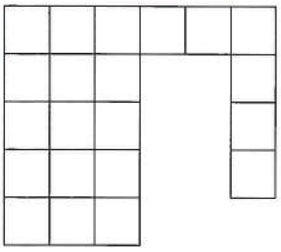
Area = _____ □

g.



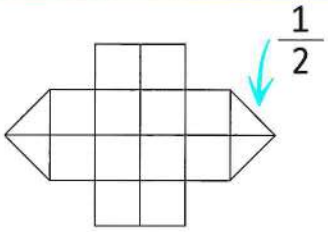
Area = _____ □

h.



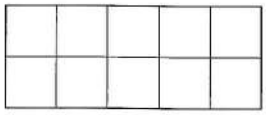
Area = _____ □

i.



Area = _____ □

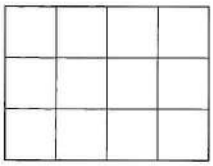
j.



Area = _____ × _____

= _____ □

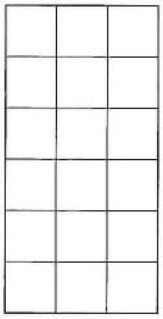
k.



Area = _____ × _____

= _____ □

l.

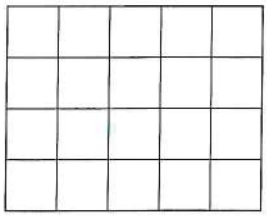


Area = _____ × _____

= _____ □

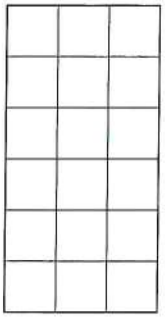
2 Calculate the area of each figure.

a.



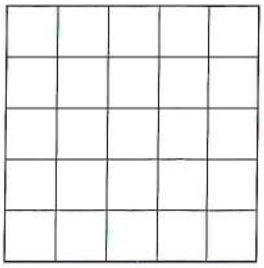
Area = _____ ☐

b.



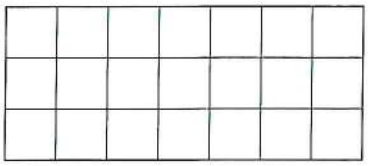
Area = _____ ☐

c.



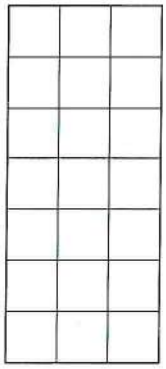
Area = _____ ☐

d.



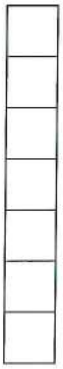
Area = _____ ☐

e.



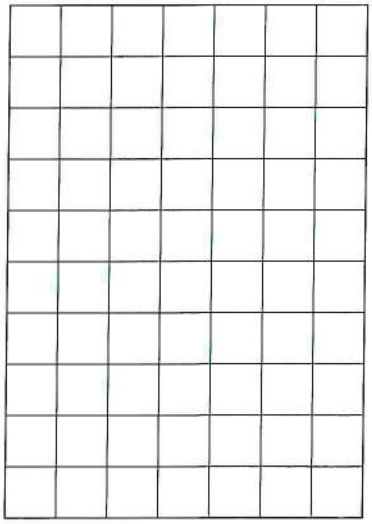
Area = _____ ☐

f.



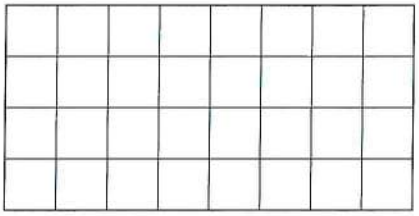
Area = _____ ☐

g.



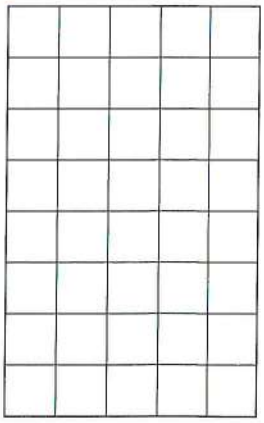
Area = _____ ☐

h.



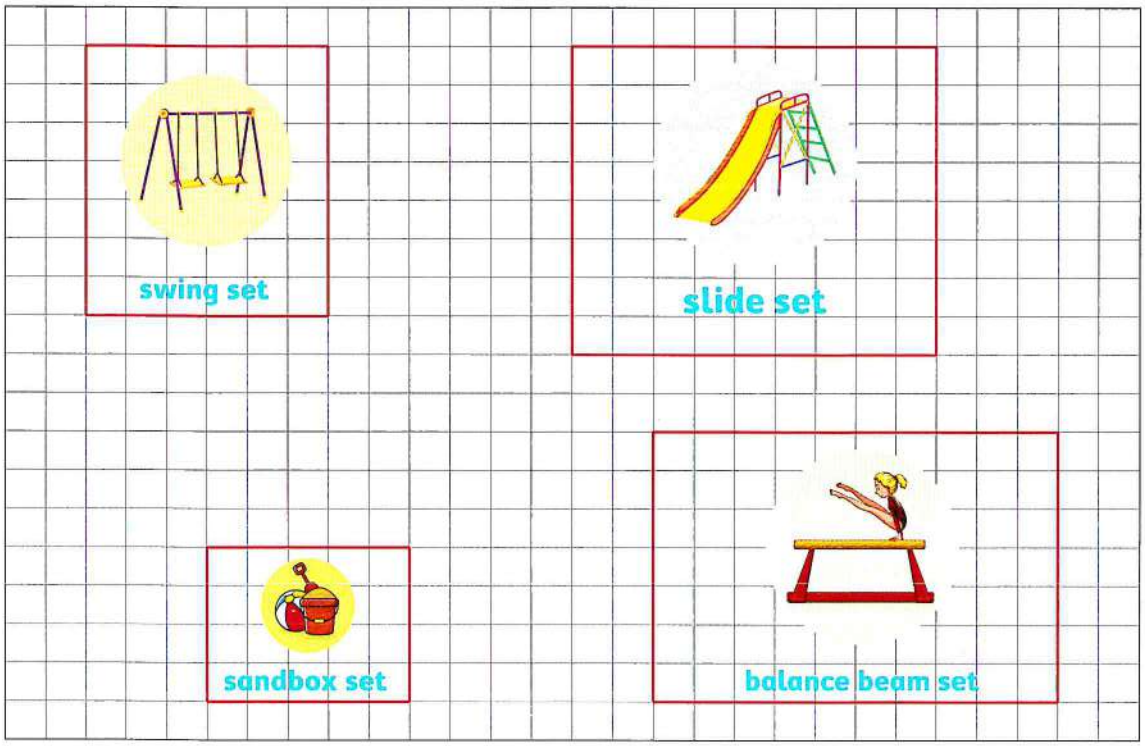
Area = _____ ☐

i.



Area = _____ ☐

3 Here are some things were placed in your playground. Complete the following.



a. The area of swing set = _____ × _____ = _____ square units.

b. The area of slide set = _____ × _____ = _____ square units.

c. The area of sandbox set = _____ × _____ = _____ square units.

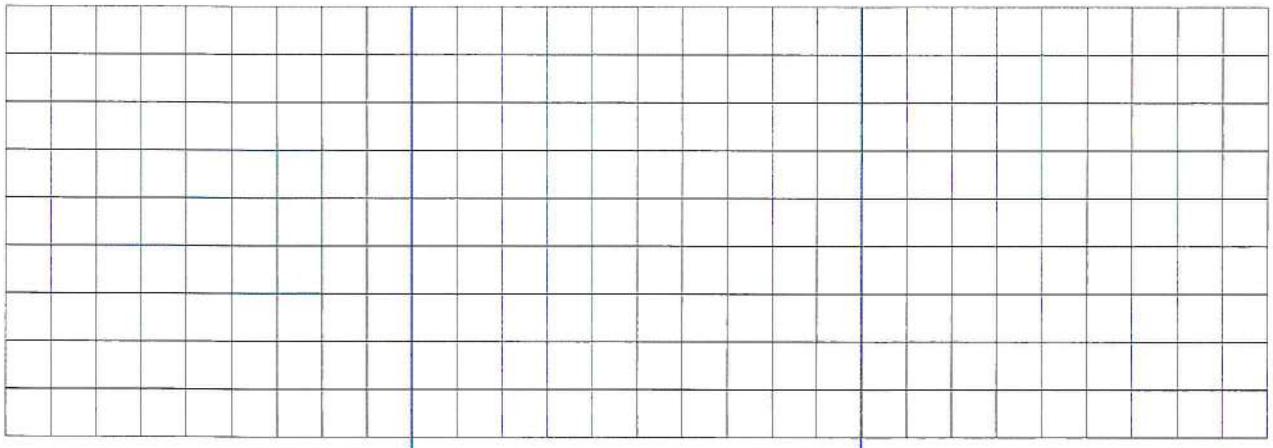
d. The area of balance beam set = _____ × _____ = _____ square units.

4 Use grid to draw a rectangle represents each of the following sentences and calculate the area as the example.

Example :

a.

b.



$3 \times 5 =$ 15 ☐

$2 \times 7 =$ _____ ☐

$4 \times 5 =$ _____ ☐

c.

$4 \times 2 =$ ____ ☐

d.

$8 \times 3 =$ ____ ☐

e.

$6 \times 1 =$ ____ ☐

f.

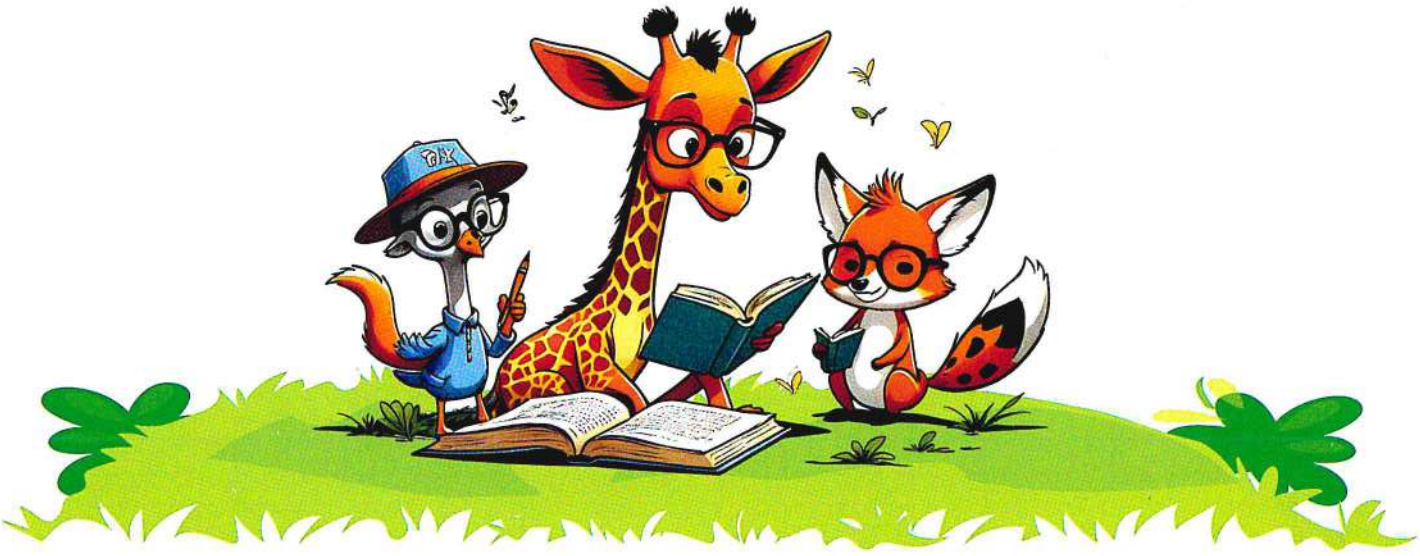
$5 \times 6 =$ ____ ☐

g.

$6 \times 4 =$ ____ ☐

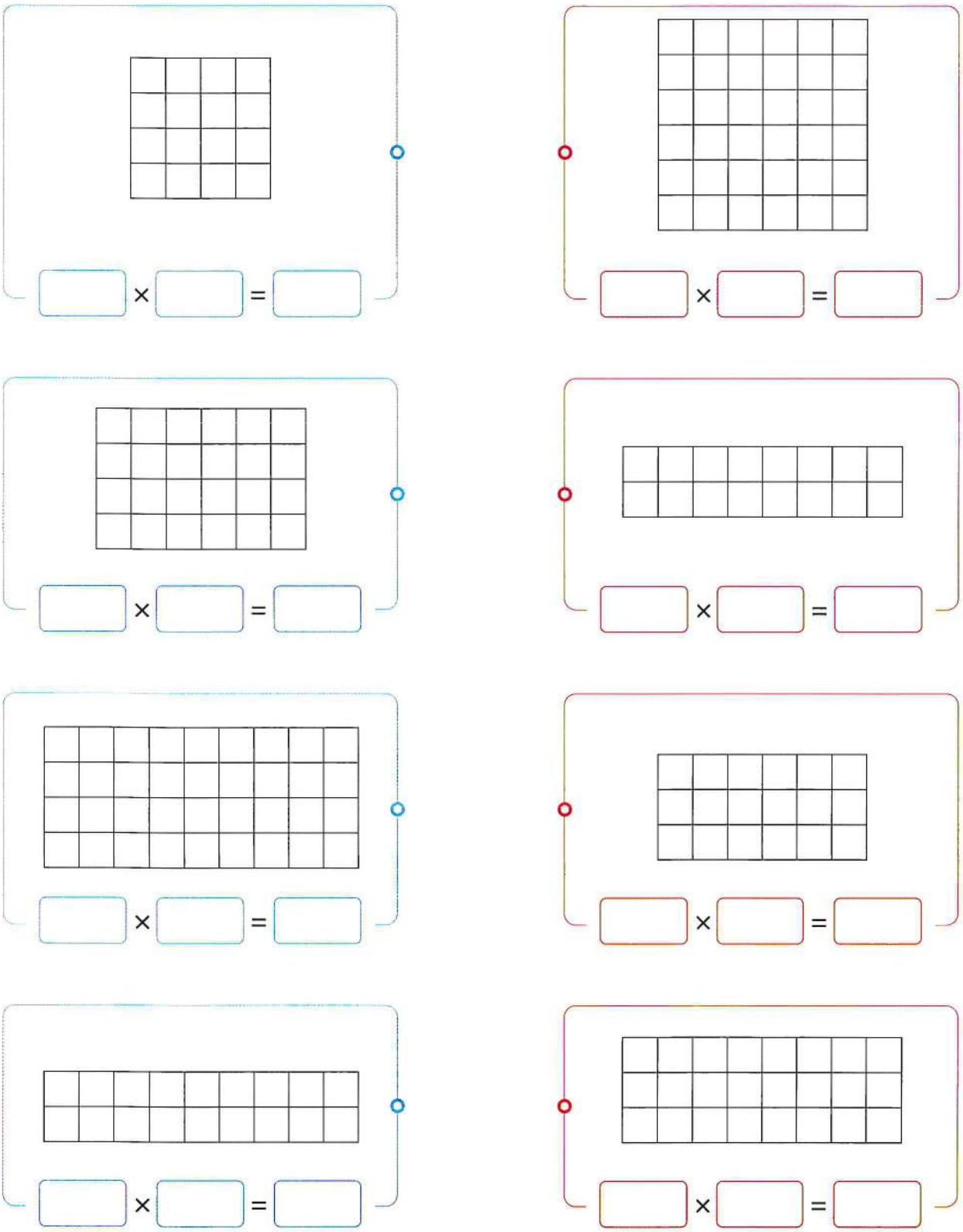
h.

$7 \times 3 =$ ____ ☐



Second : Exercises on rectangles with equal area

1 Complete the equations under each of the following.
Match the equal areas.



2 **Use commutative property to draw two different rectangles of the following dimensions. Multiply to find the area.**

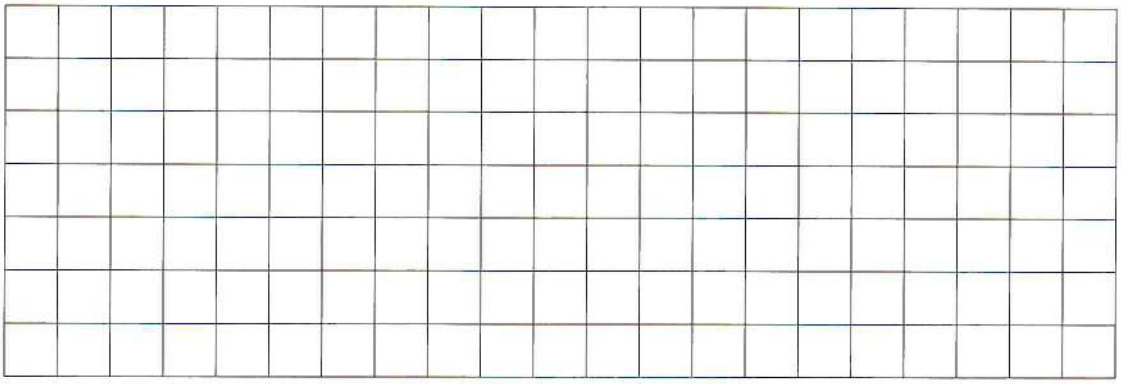
a. 2 units , 3 units.

b. 3 units , 4 units.

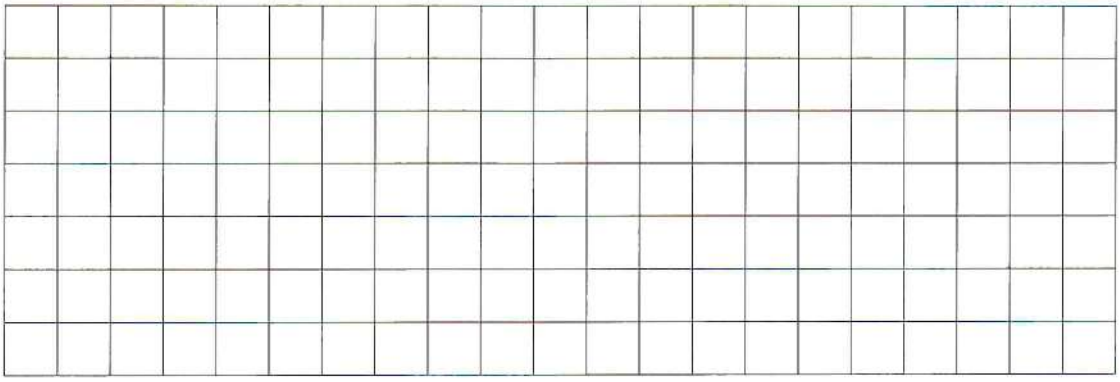
c. 4 units , 5 units.

3 Draw on the grids rectangles with different dimensions with an area of each of the following. Write the multiplication equations for each rectangle.

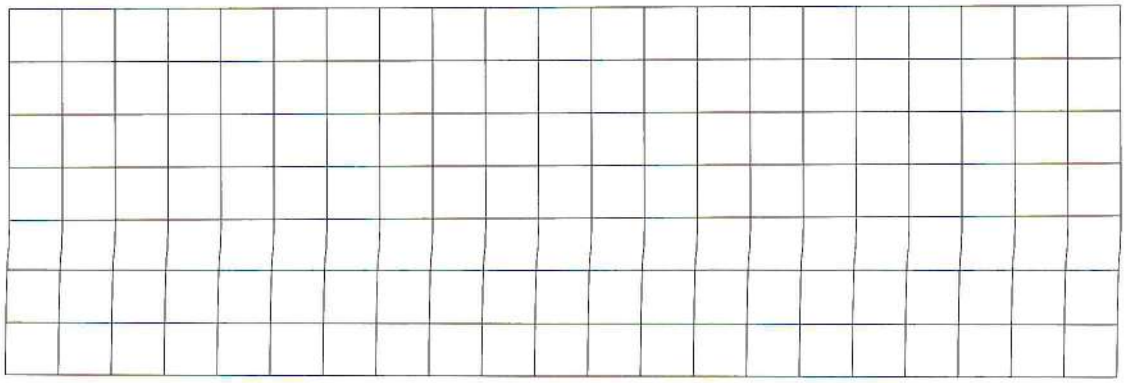
a. 12 square units.



b. 18 square units.



c. 24 square units.



4 Omar planted two flower plots. One was 3 × 4 and one was 2 × 6.
Do they have the same area ? How do you know ?
Show your thinking in numbers and pictures in the grid below.

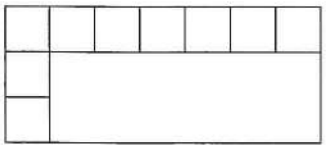
5 Amira wanted to plant 24 flowers. If one flower needs 1 square unit.
Show two ways for the area of 24 square units.
Write the two commutative property sentences for each.

Answers may vary

Third : Exercises on area using models

1 Determine the total area of each shape.

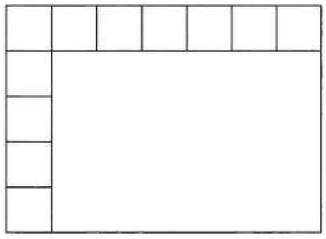
a.



Area = ____ rows × ____ columns

= ____ square units

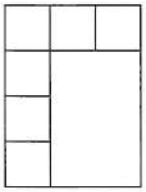
b.



Area = ____ rows × ____ columns

= ____ square units

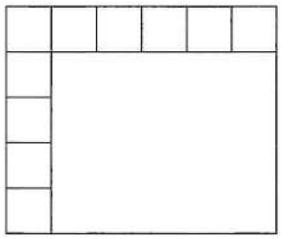
c.



Area = ____ rows × ____ columns

= ____ square units

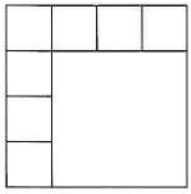
d.



Area = ____ rows × ____ columns

= ____ square units

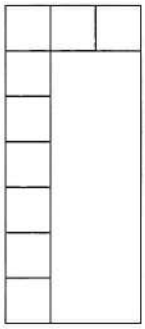
e.



Area = ____ rows × ____ columns

= ____ square units

f.

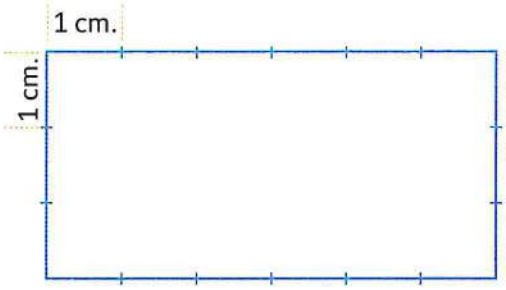


Area = ____ rows × ____ columns

= ____ square units

Challenge

2 Use your ruler to measure the width and the length of the rectangle. Calculate the area of the rectangle.



_____

Place a smiley face

Lessons 6 & 7

• Areas by splitting arrays
• Distributive property on multiplication

Learn Distributive property

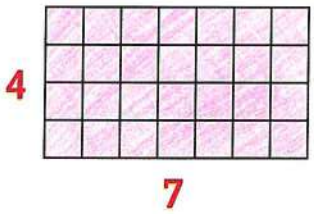
- Distributive property tells us we can divide (split) a multiplication problem into two or more smaller problems, add together their products, and get the final answer.

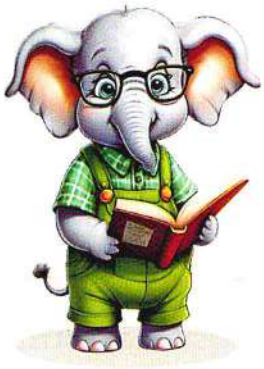
- To find how many squares in big arrays as the following array :

Multiply the number of rows by the number in each row.

4 rows of 7

$$\underset{\text{rows}}{4} \times \underset{\text{in each row}}{7} = \underset{\text{Total}}{28}$$

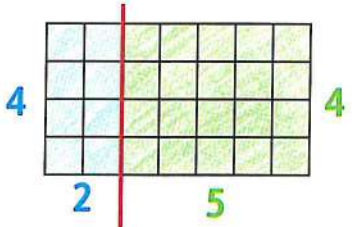




Another way using distributive property :

Split an array into two smaller arrays and add the products of the two arrays.

(There are more than one correct way to break apart an array).



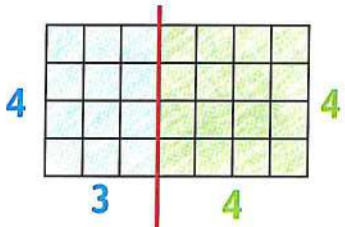
4 rows of 2

$$\underset{\text{rows}}{4} \times \underset{\text{in each row}}{2} = 8$$

4 rows of 5

$$\underset{\text{rows}}{4} \times \underset{\text{in each row}}{5} = 20$$

$8 + 20 = 28$



4 rows of 3

$$\underset{\text{rows}}{4} \times \underset{\text{in each row}}{3} = 12$$

4 rows of 4

$$\underset{\text{rows}}{4} \times \underset{\text{in each row}}{4} = 16$$

$12 + 16 = 28$

From above :

$4 \times 7 = (4 \times 2) + (4 \times 5)$

$4 \times 7 = (4 \times 3) + (4 \times 4)$

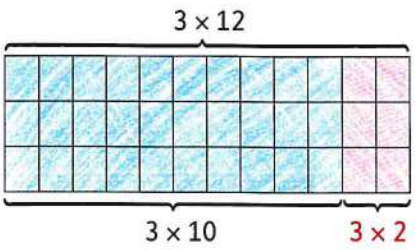
Notes for parents

- Remind your child the commutative property which says that : $4 \times 7 = 7 \times 4 = 28$.

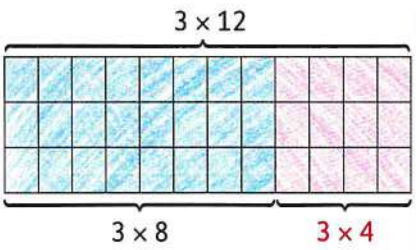
Example 1

Find the product of 3 × 12 in 3 ways using distributive property.

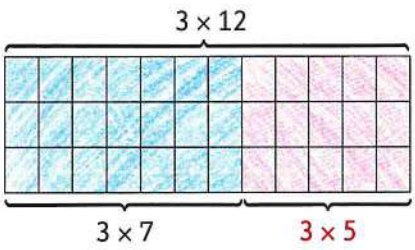
Solution



$3 \times 12 = 3 \times 10 + 3 \times 2$
$= 30 + 6$
$= 36$



$3 \times 12 = 3 \times 8 + 3 \times 4$
$= 24 + 12$
$= 36$



$3 \times 12 = 3 \times 7 + 3 \times 5$
$= 21 + 15$
$= 36$

Example 2

Use the distributive property to complete the following.

a. $5 \times 8 = (5 \times 6) + (5 \times$ _____ $)$

b. $3 \times$ _____ $= (3 \times 5) + (3 \times 2)$

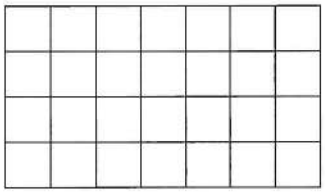
Solution

a. $5 \times 8 = (5 \times 6) + (5 \times 2)$ [Hint : 8 = 6 + 2]

b. $3 \times 7 = (3 \times 5) + (3 \times 2)$ [Hint : 5 + 2 = 7]

Check

1. Find another way to split the same array.
Write the two equations of the two smaller arrays.



_____

_____

2. Complete the following.

a. $6 \times 8 = (6 \times 3) + (6 \times$ _____ $)$

b. $2 \times 9 = ($ _____ $\times 5) + (2 \times$ _____ $)$

c. $(3 \times 5) + (3 \times 6) = 3 \times$ _____

d. $4 \times 7 = (4 \times$ _____ $) + (4 \times 6)$

Notes for parents

• Help your child write different equations of 3 × 12 using the distributive property of multiplication.

Exercise 21

On Lessons 6 & 7

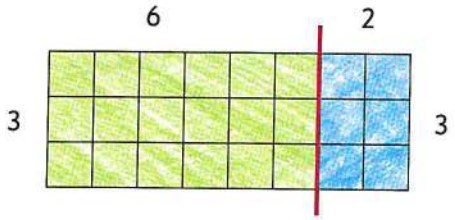
- **Areas by splitting arrays**
- **Distributive property on multiplication**

From the school book

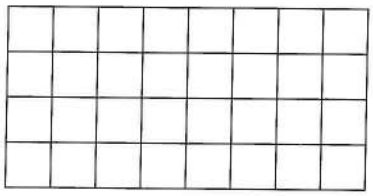
1 Split the following arrays into two smaller arrays and label the factors for each part as the example.

Answers may vary

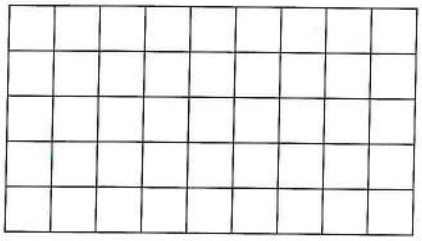
Example :



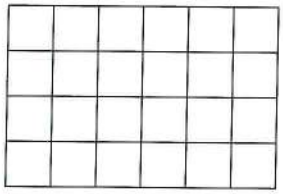
a.



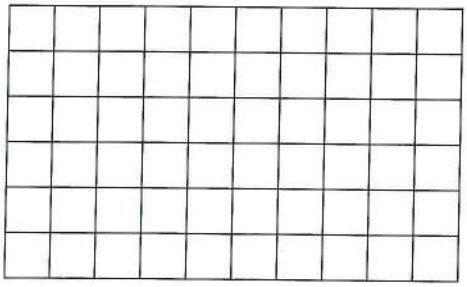
b.



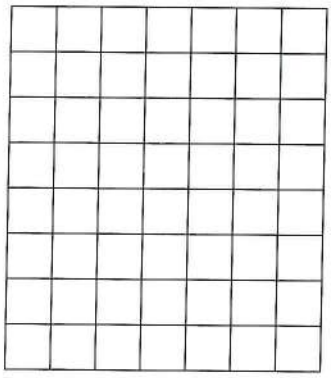
c.



d.

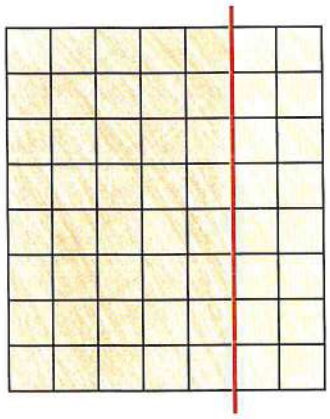


e.



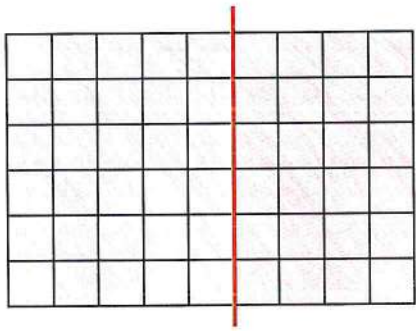
2 Write the distributive property equation of each.

a.



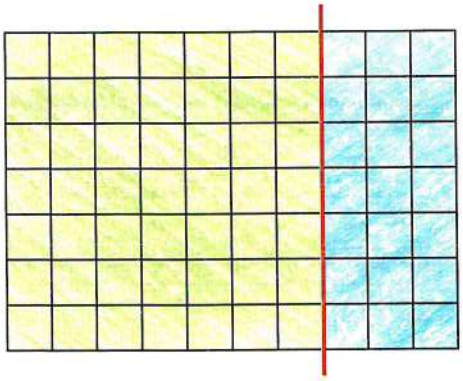
8 × ☐ = (☐ × ☐) + (☐ × ☐)

b.



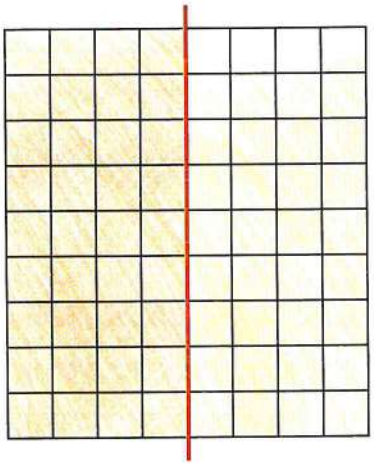
☐ × ☐ = (☐ × ☐) + (☐ × ☐)

c.



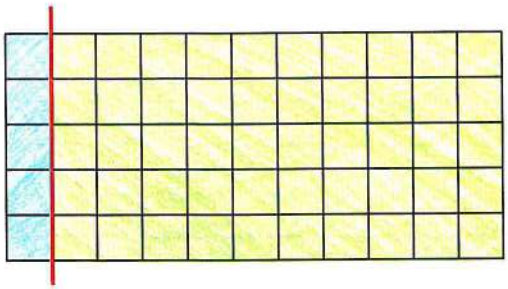
☐ × ☐ = (☐ × ☐) + (☐ × ☐)

d.



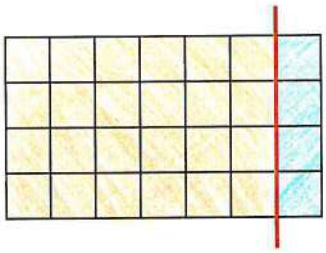
☐ × ☐ = (☐ × ☐) + (☐ × ☐)

e.



☐ × ☐ = (☐ × ☐) + (☐ × ☐)

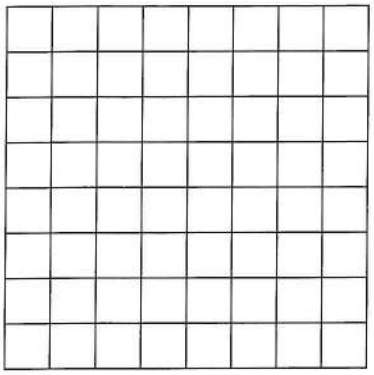
f.



☐ × ☐ = (☐ × ☐) + (☐ × ☐)

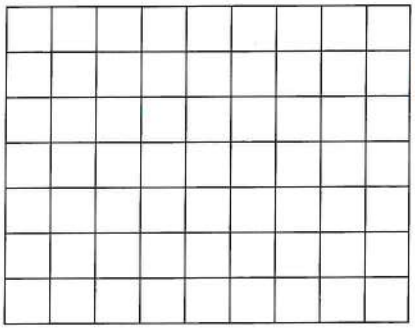
3 Split the following arrays according to the distributive property equations.

a.



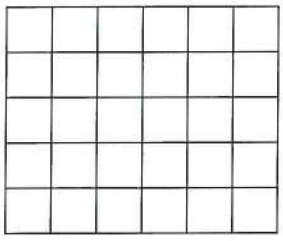
$8 \times 8 = (8 \times 5) + (8 \times 3)$

b.



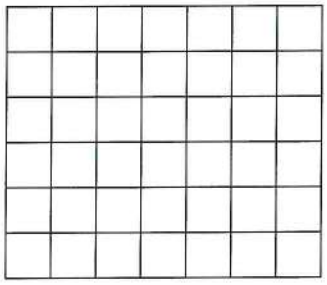
$7 \times 9 = (7 \times 2) + (7 \times 7)$

c.



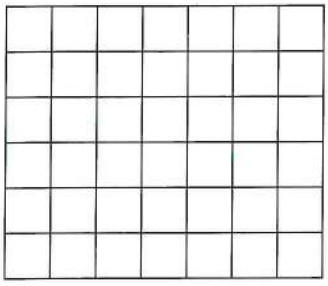
$5 \times 6 = (5 \times 4) + (5 \times 2)$

d.



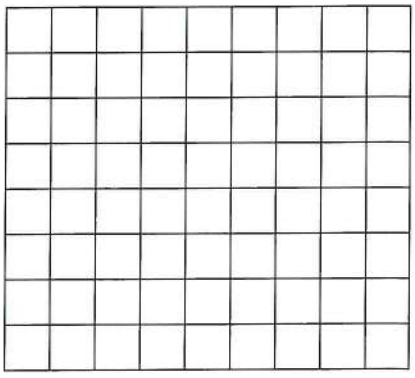
$6 \times 7 = (6 \times 1) + (6 \times 6)$

e.



$6 \times 7 = (6 \times 3) + (6 \times 4)$

f.

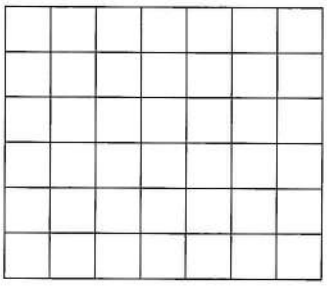


$8 \times 9 = (8 \times 4) + (8 \times 5)$

4 Split the arrays, using the distributive property write the equations.

Answers may vary !

a.



☐ × ☐ = ☐

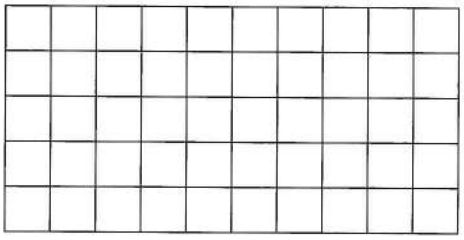
☐ × ☐ = ☐

☐ + ☐ = ○

6 × 7 = ○

6 × 7 = (____ × ____) + (____ × ____)

b.



☐ × ☐ = ☐

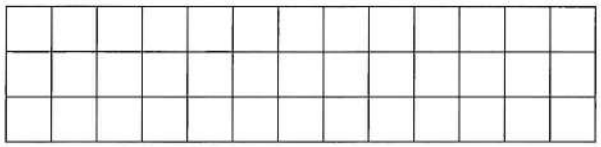
☐ × ☐ = ☐

☐ + ☐ = ○

5 × 10 = ○

5 × 10 = (____ × ____) + (____ × ____)

c.



☐ × ☐ = ☐

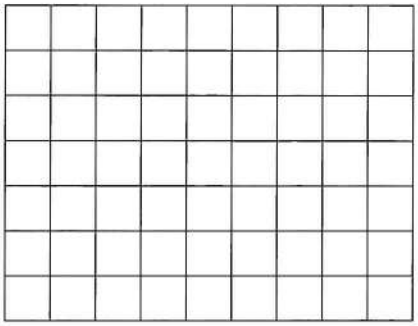
☐ × ☐ = ☐

☐ + ☐ = ○

3 × 13 = ○

3 × 13 = (____ × ____) + (____ × ____)

d.



☐ × ☐ = ☐

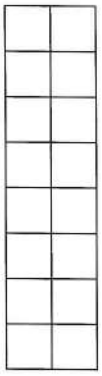
☐ × ☐ = ☐

☐ + ☐ = ○

7 × 9 = ○

7 × 9 = (____ × ____) + (____ × ____)

e.



☐ × ☐ = ☐

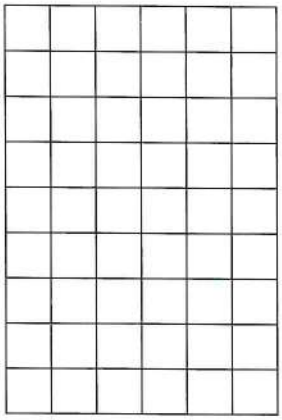
☐ × ☐ = ☐

☐ + ☐ = ◯

8 × 2 = ◯

8 × 2 = (____ × ____) + (____ × ____)

f.



☐ × ☐ = ☐

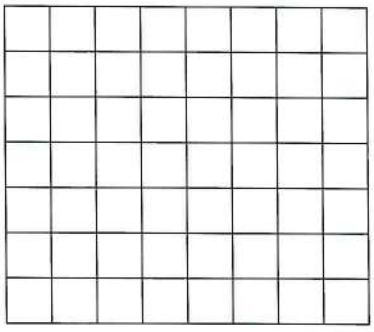
☐ × ☐ = ☐

☐ + ☐ = ◯

9 × 6 = ◯

9 × 6 = (____ × ____) + (____ × ____)

g.



☐ × ☐ = ☐

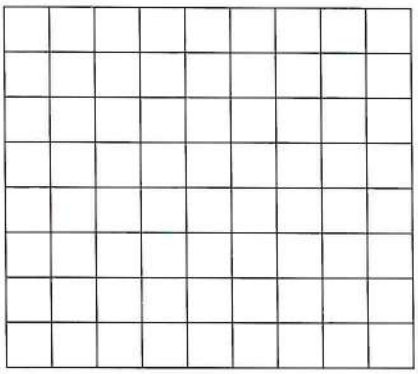
☐ × ☐ = ☐

☐ + ☐ = ◯

7 × 8 = ◯

7 × 8 = (____ × ____) + (____ × ____)

h.



☐ × ☐ = ☐

☐ × ☐ = ☐

☐ + ☐ = ◯

8 × 9 = ◯

8 × 9 = (____ × ____) + (____ × ____)

5 Use the distributive property to complete the following equations.

a. $3 \times 9 = (3 \times 6) + (3 \times \_\_\_\_)$

b. $4 \times 7 = (4 \times 2) + (4 \times \_\_\_\_)$

c. $6 \times 6 = (6 \times 5) + (6 \times \_\_\_\_)$

d. $9 \times 13 = (9 \times 7) + (9 \times \_\_\_\_)$

e. $9 \times 9 = (9 \times 4) + (\_\_\_\_ \times \_\_\_\_)$

f. $4 \times 8 = (4 \times 4) + (\_\_\_\_ \times \_\_\_\_)$

g. $5 \times 15 = (5 \times 5) + (\_\_\_\_ \times \_\_\_\_)$

h. $7 \times \_\_\_\_ = (7 \times 6) + (7 \times 4)$

i. $8 \times 12 = (\_\_\_\_ \times 2) + (8 \times \_\_\_\_)$

j. $3 \times 11 = (\_\_\_\_ \times 10) + (3 \times \_\_\_\_)$

k. $7 \times 9 = (\_\_\_\_ \times 4) + (7 \times \_\_\_\_)$

l. $\_\_\_\_ \times \_\_\_\_ = (5 \times 6) + (5 \times 1)$

6 Use the distributive property to complete the following equations and find the total.

a. $6 \times 7 = (6 \times 2) + (6 \times \_\_\_\_)$

$= \_\_\_\_ + \_\_\_\_ = \_\_\_\_$

b. $9 \times 8 = (9 \times 4) + (9 \times \_\_\_\_)$

$= \_\_\_\_ + \_\_\_\_ = \_\_\_\_$

c. $4 \times 9 = (4 \times \_\_\_\_) + (\_\_\_\_ \times 5)$

$= \_\_\_\_ + \_\_\_\_ = \_\_\_\_$

d. $12 \times 2 = (\_\_\_\_ \times 1) + (\_\_\_\_ \times 12)$

$= \_\_\_\_ + \_\_\_\_ = \_\_\_\_$

e. $10 \times 11 = (\_\_\_\_ \times 10) + (\_\_\_\_ \times 1)$

$= \_\_\_\_ + \_\_\_\_ = \_\_\_\_$

f. $5 \times 7 = (\_\_\_\_ \times 6) + (\_\_\_\_ \times \_\_\_\_)$

$= \_\_\_\_ + \_\_\_\_ = \_\_\_\_$

g. $9 \times 6 = (\_\_\_\_ \times 3) + (\_\_\_\_ \times \_\_\_\_)$

$= \_\_\_\_ + \_\_\_\_ = \_\_\_\_$

h. $3 \times 14 = (\_\_\_\_ \times 4) + (\_\_\_\_ \times \_\_\_\_)$

$= \_\_\_\_ + \_\_\_\_ = \_\_\_\_$

7 Match.

a.	3×10	$(4 \times 5) + (4 \times 4)$
b.	7×6	$(3 \times 7) + (3 \times 3)$
c.	4×9	$(7 \times 5) + (7 \times 1)$
d.	9×13	$(6 \times 6) + (6 \times 5)$
e.	6×11	$(9 \times 10) + (9 \times 3)$

8 Choose the correct answer.

a. $5 \times 11 = (5 \times 10) + (5 \times$ _____ $)$ (1 or 5 or 10 or 11)

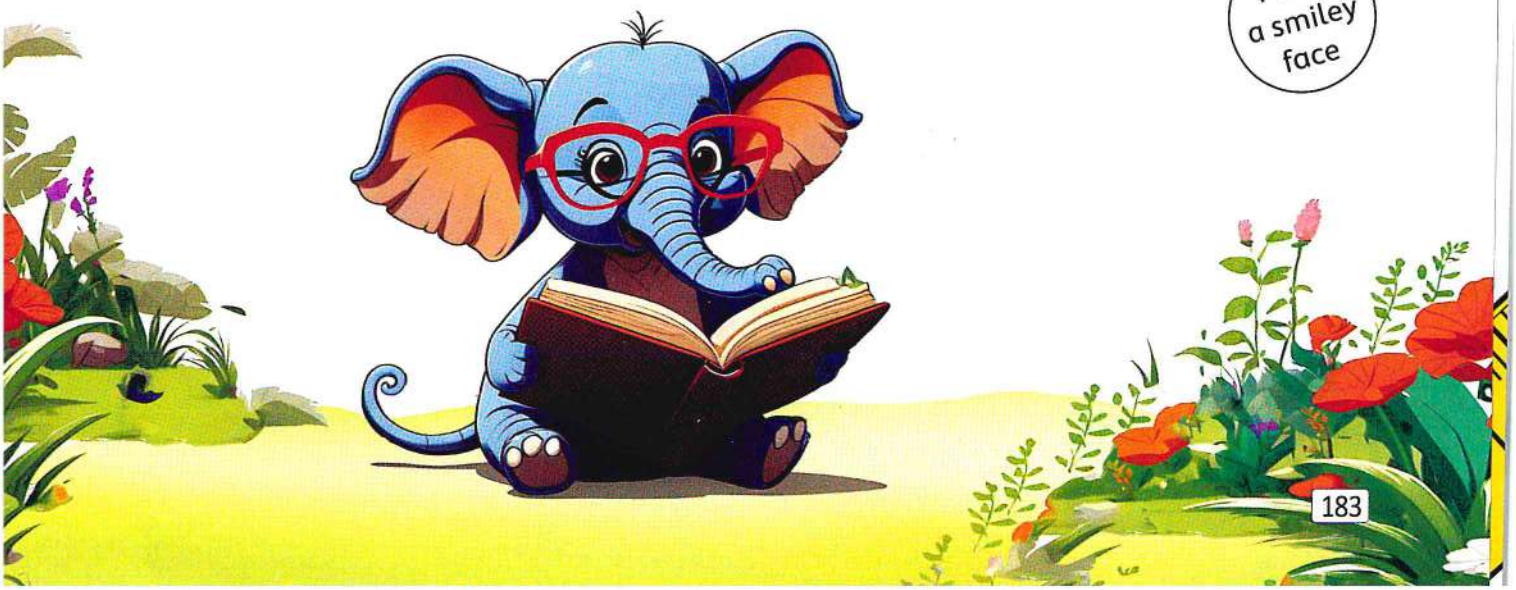
b. $7 \times$ _____ $= (7 \times 10) + (7 \times 3)$ (7 or 10 or 13 or 30)

c. $(4 \times 9) + (4 \times 6) =$ _____ $\times 15$ (4 or 6 or 9 or 15)

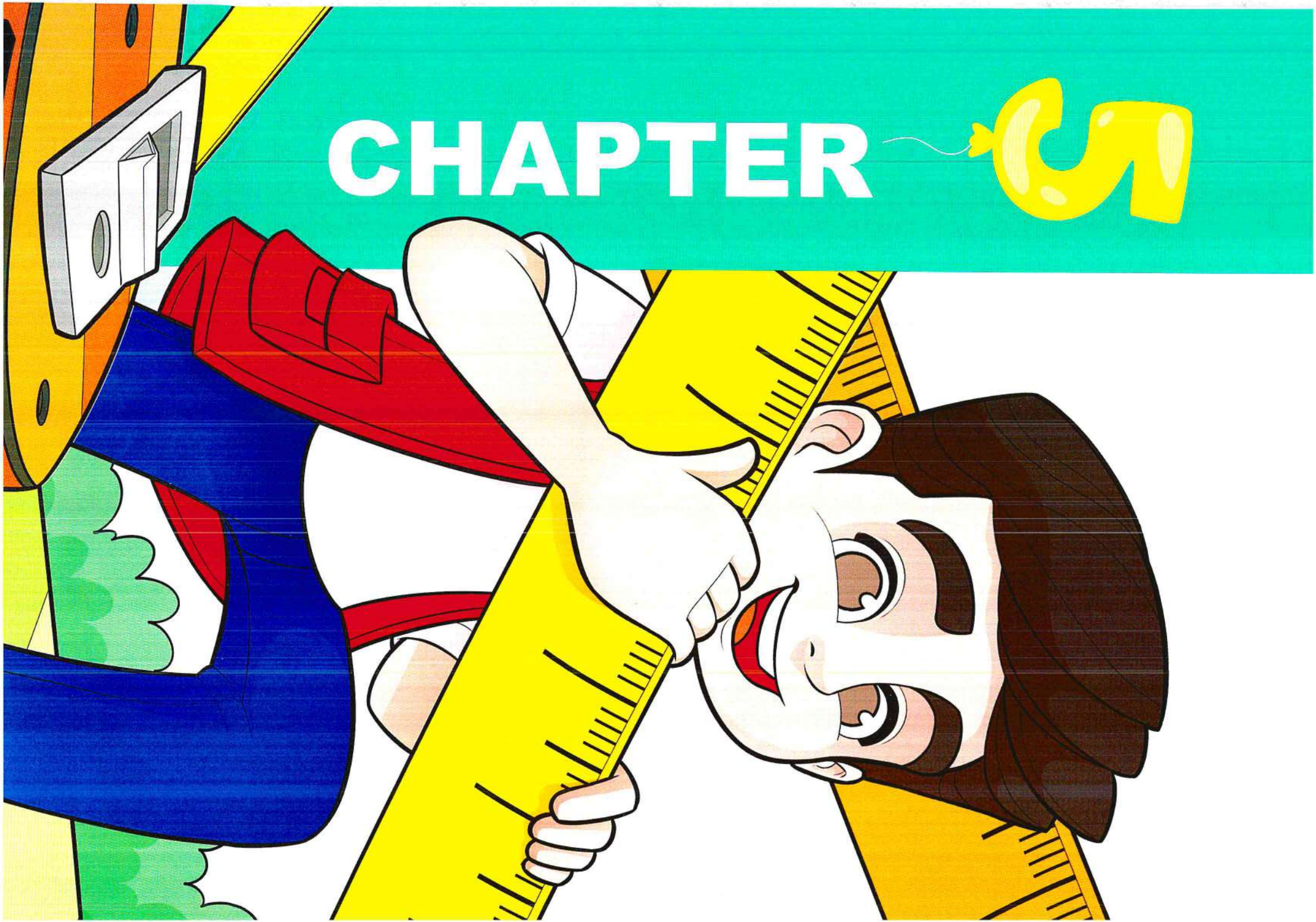
d. $6 \times 13 = (6 \times$ _____ $) + (6 \times 3)$ (3 or 6 or 10 or 13)

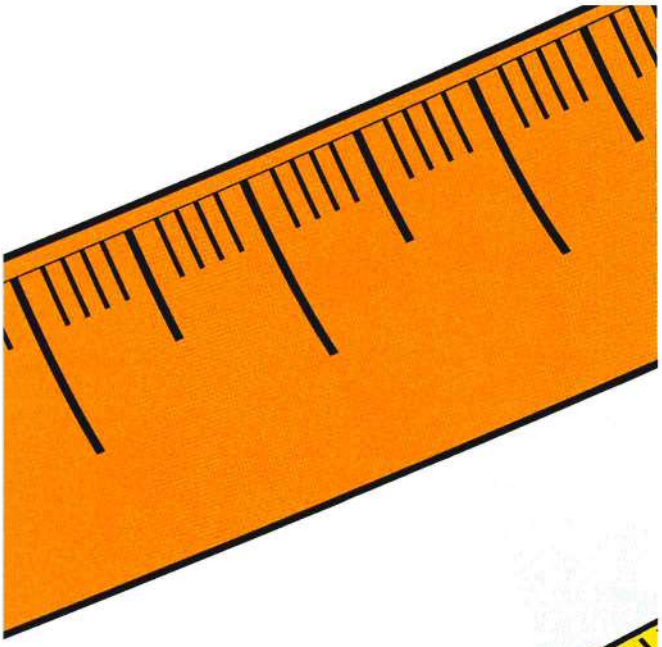
e. $4 \times 10 = (4 \times \triangle) + (4 \times \bigcirc)$, then $\triangle + \bigcirc =$ _____ (4 or 6 or 8 or 10)

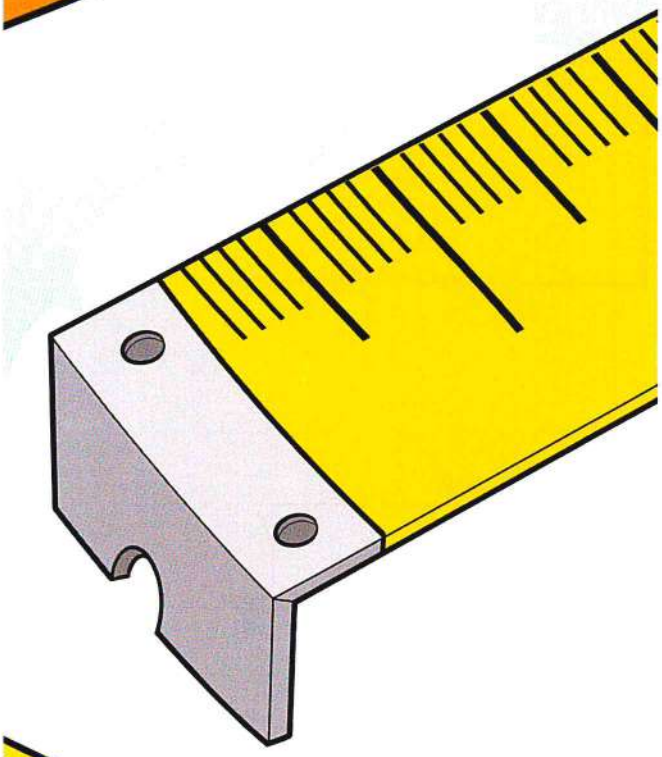
Place a smiley face

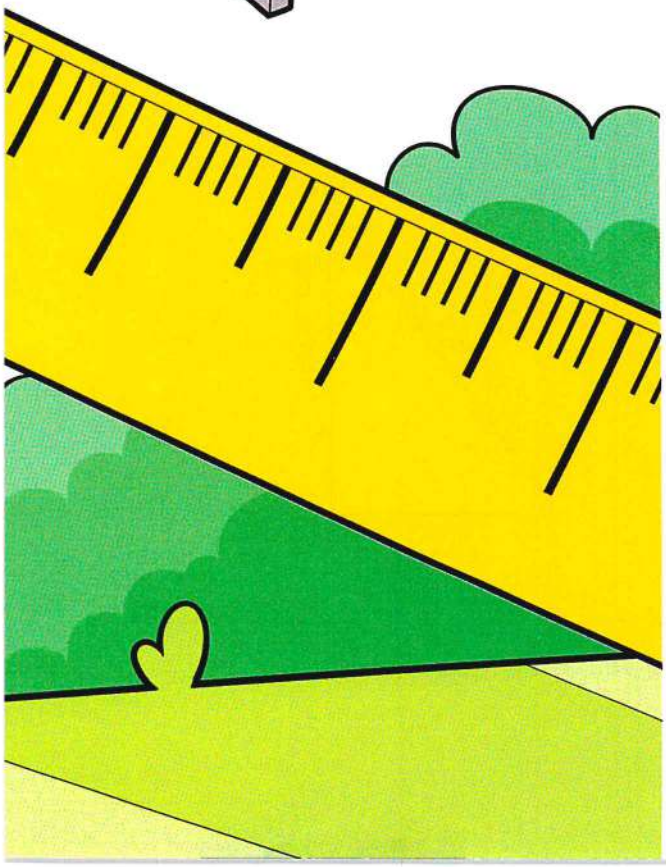


CHAPTER 5









Outcomes of chapter five :

At the end of chapter five, your child will be able to:

▶ **Lessons 1 & 2 :**

- **Perimeter of polygons**
- **Perimeter and area**
- Measure the lengths of sides of polygons in centimeters.
- Define perimeter.
- Calculate the perimeters of polygons in centimeters.
- Explain why perimeter is a linear measurement.
- Explain the difference between perimeter and area.
- Calculate the perimeter and area of given arrays with some units missing.

▶ **Lessons 3 & 4 :**

- **Area using dimensions**
- **Area using different strategies**
- Explain why area is not a linear measurement.
- Calculate the area of a rectangle given only the length and width.
- Describe the problem-solving strategies they used to solve area problems.
- Apply a variety of strategies to solve area problems.
- Explain the strategies they used to solve area problems.

▶ **Lessons 5 & 6 :**

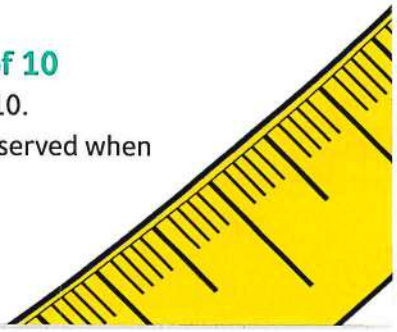
- **Different perimeters for the same area**
- **Different areas for the same perimeter**
- Construct different rectangles with the same area.
- Compare the perimeters of rectangles with the same area but different dimensions.
- Construct different rectangles with the same perimeter.
- Compare the areas of rectangles with the same perimeter but different dimensions.

▶ **Lesson 7 :**

- **Applications on perimeter and area**
- Apply strategies to solve real-world area and perimeter problems.
- Apply his/her understanding of area and perimeter to write story problems.

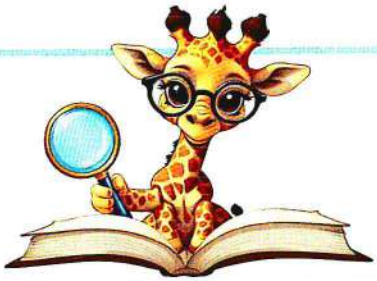
▶ **Lesson 8 :**

- **Multiplying by multiples of 10**
- Multiply by 10 and multiples of 10.
- Identify and explain patterns observed when multiplying by 10s.



Lessons 1 & 2

• Perimeter of polygons
• Perimeter and area

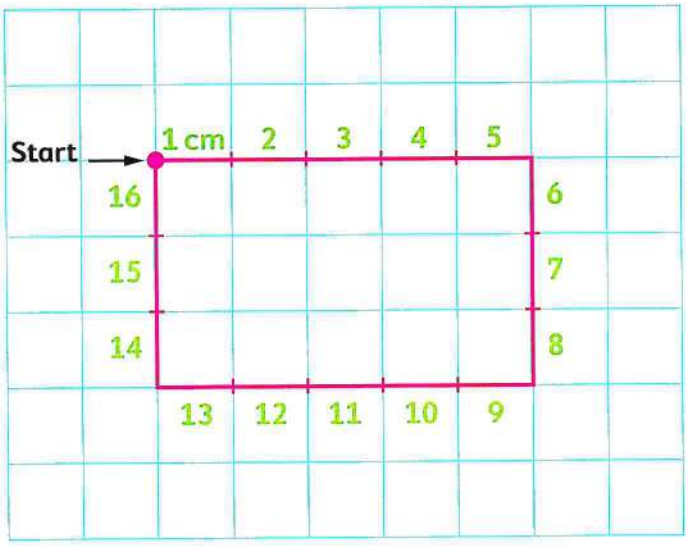


Learn 1 Perimeter of a polygon

- The perimeter is the distance around a figure or a polygon.
- **First :**

  You can find the perimeter by counting the units along the outside of the figure.

  The perimeter of the opposite figure = 16 cm

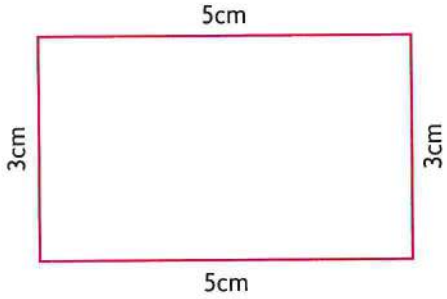


- **Second :**

  You can find the perimeter by adding all the side lengths of the polygon.

  The perimeter of the opposite figure

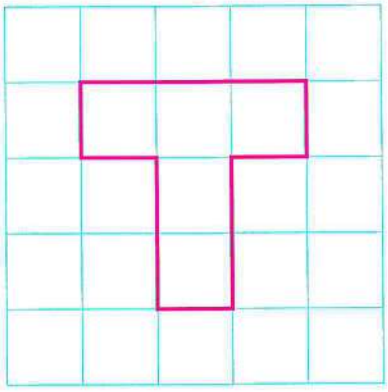
  $= 5 + 3 + 5 + 3 = 16$ cm



Example 1

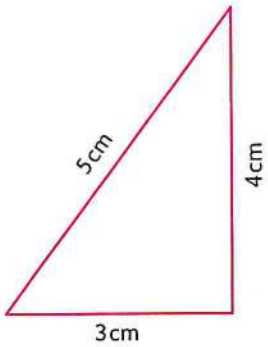
Find the perimeter of each figure.

a.



Perimeter = _____ units.

b.



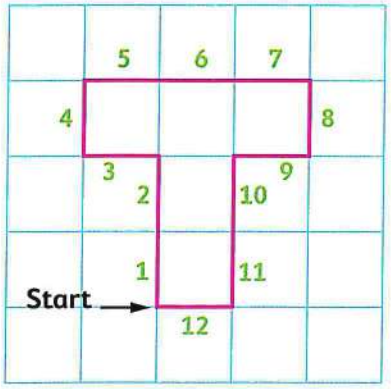
Perimeter = _____ + _____ + _____ = _____ cm

Notes for parents

- Help your child find the perimeter of each figure.

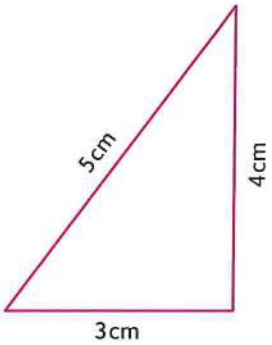
Solution

a.



Perimeter = 12 units.

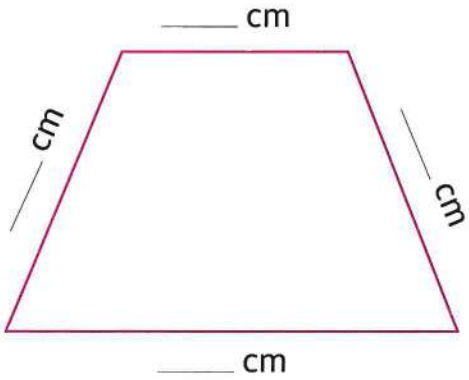
b.



Perimeter = 3 + 4 + 5 = 12 cm

Example 2

Measure each side. Add to find the perimeter.

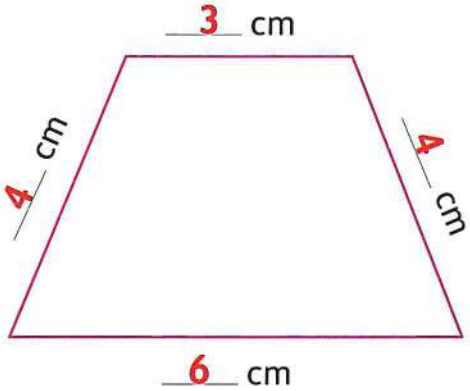


Math tip

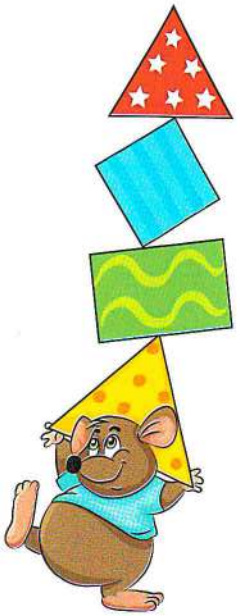
Measuring length in one direction as length, width, distance between the endpoints of a side in a polygon is called linear measurement.

Perimeter = ____ + ____ + ____ + ____ = ____ cm

Solution



Perimeter = 3 + 4 + 4 + 6 = 17 cm

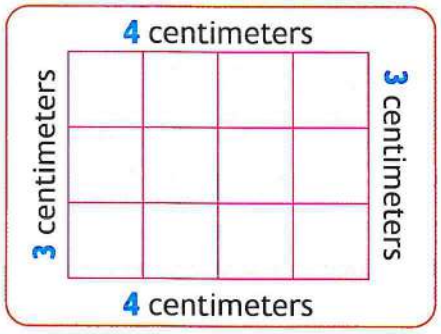


• Let your child use a centimeter ruler to measure the perimeter of a book.

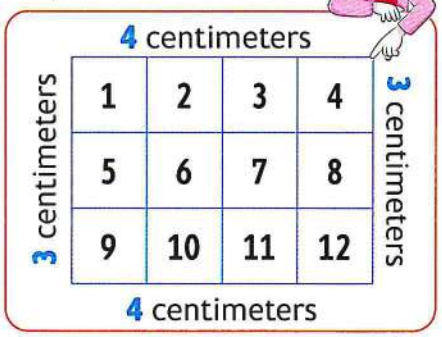
Learn 2 Perimeter and area

What is the perimeter and the area of this shape ?

- **The difference between the perimeter and the area :**
  - * Perimeter : Measurement of the distance around the shape.
  - * Area : Measurement of the space inside the shape.



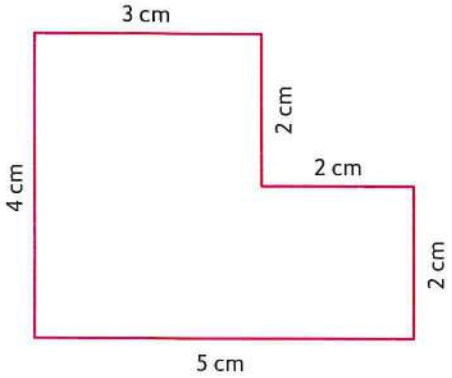
Perimeter = 4 + 3 + 4 + 3
= 14 centimeters.



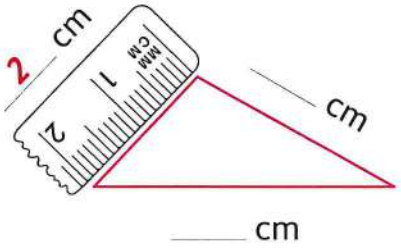
Area = 12 square centimeters.

Check

1. Find the perimeter of each figure.

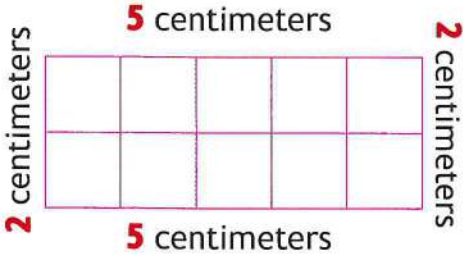


- Perimeter = _____ cm

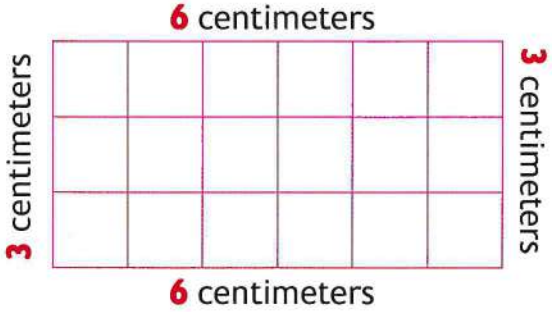


- Perimeter = _____ cm

2. Find the perimeter and the area of each of the following figures.



- Perimeter = _____ + _____ + _____ + _____ = _____ cm
- Area = _____ square centimeters.



- Perimeter = _____ + _____ + _____ + _____ = _____ cm
- Area = _____ square centimeters.

Notes for parents

- Help your child use a ruler to measure the side length.
- Let your child color or cross off as he/she counts to avoid counting twice or skipping units.

Exercise
22
On Lessons 1 & 2

- **Perimeter of polygons**
- **Perimeter and area**

From the school book

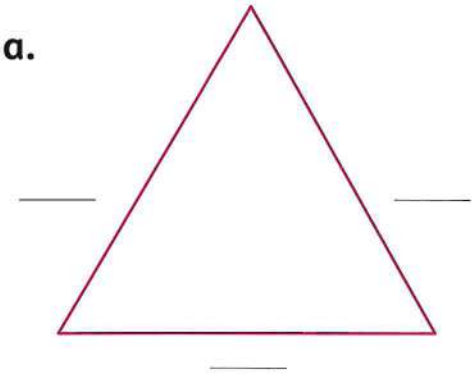
1 **Measure each side and find the perimeter of each polygon.**

then , (1) Color the polygon with the greatest perimeter in red.

(2) Color the polygon with the smallest perimeter in green.

(3) Color the polygon with the same perimeter in blue.

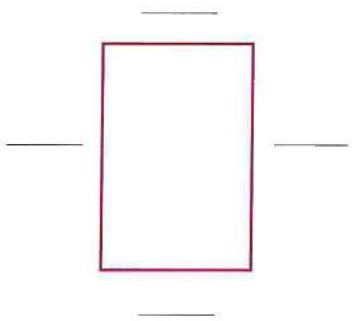
a.



Perimeter = _____ + _____ + _____

= _____ cm

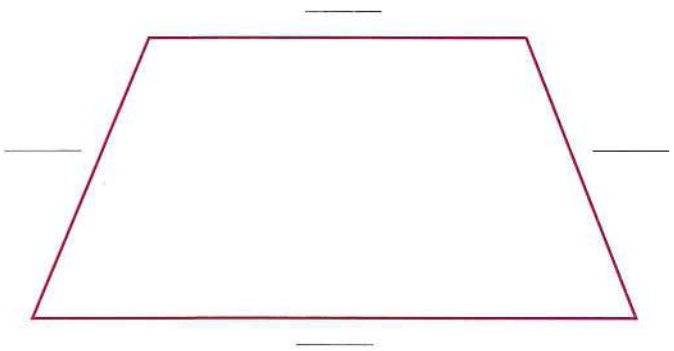
b.



Perimeter = _____ + _____ + _____ + _____

= _____ cm

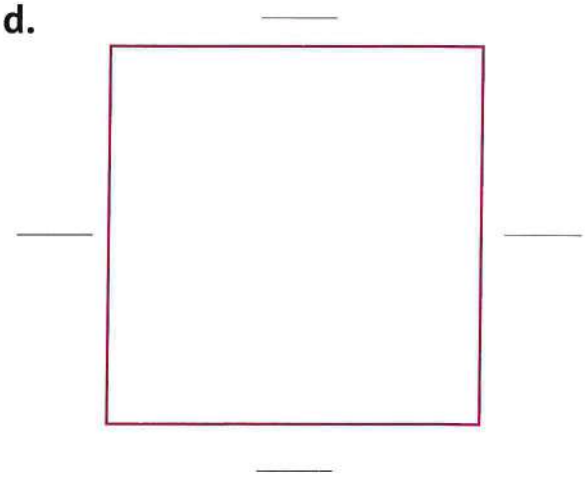
c.



Perimeter = _____ + _____ + _____+ _____

= _____ cm

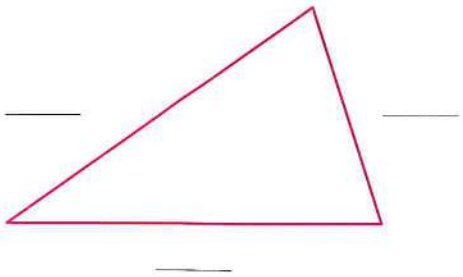
d.



Perimeter = _____ + _____ + _____ + _____

= _____ cm

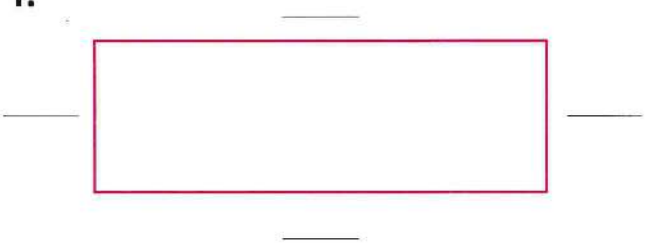
e.



Perimeter = ____ + ____ + ____

= ____ cm

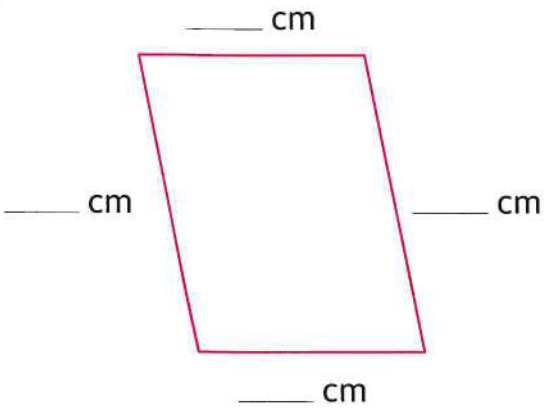
f.



Perimeter = ____ + ____ + ____ + ____

= ____ cm

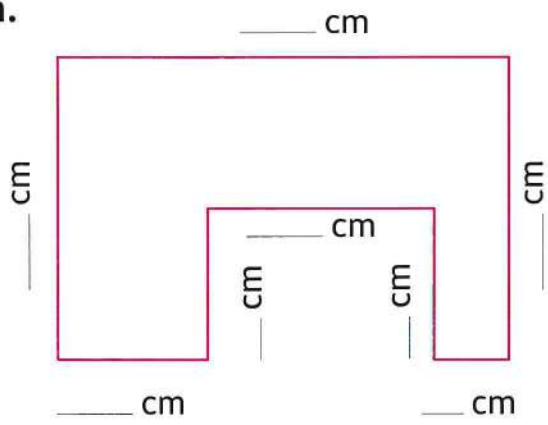
g.



Perimeter = ____ + ____ + ____ + ____

= ____ cm

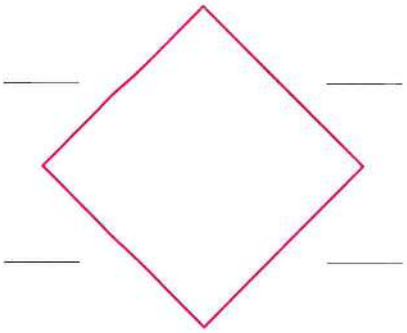
h.



Perimeter = ____ + ____ + ____ + ____

+ ____ + ____ + ____ + ____ = ____ cm

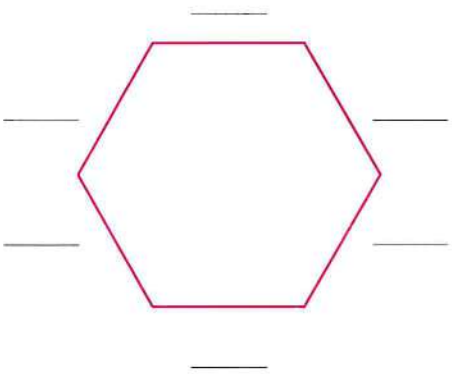
i.



Perimeter = ____ + ____ + ____ + ____

= ____ cm

j.

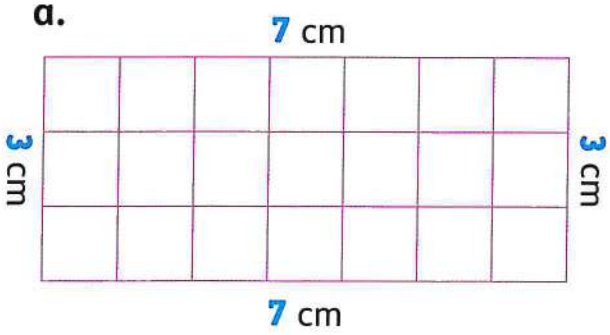


Perimeter = ____ + ____ + ____+ ____

+ ____ + ____ = ____ cm

2 Find the perimeter and the area of each of the following figures.

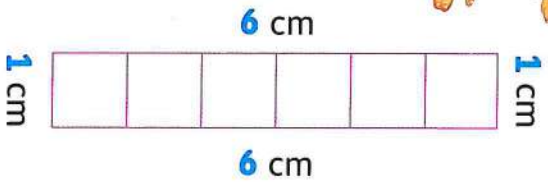
a.



Perimeter = _____ cm

Area = _____ square centimeters

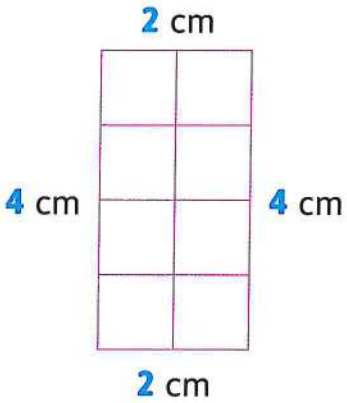
b.



Perimeter = _____ cm

Area = _____ square centimeters

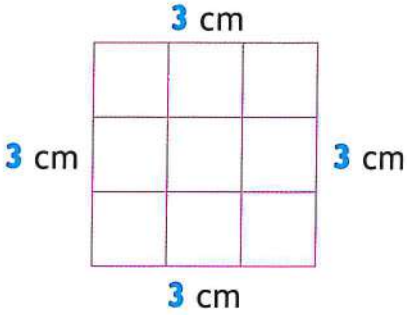
c.



Perimeter = _____ cm

Area = _____ square centimeters

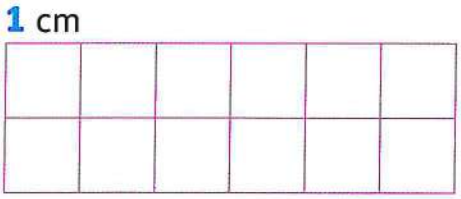
d.



Perimeter = _____ cm

Area = _____ square centimeters

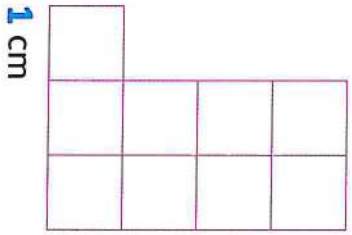
e.



Perimeter = _____ cm

Area = _____ square centimeters

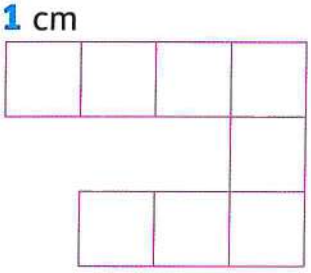
f.



Perimeter = _____ cm

Area = _____ square centimeters

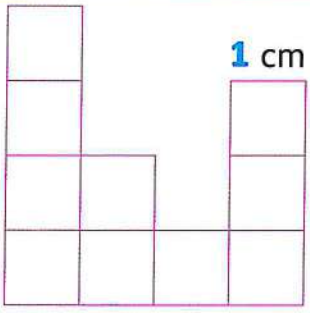
g.



Perimeter = _____ cm

Area = _____ square centimeters

h.

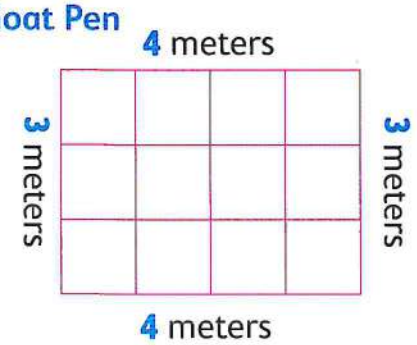


Perimeter = _____ cm

Area = _____ square centimeters

3 Solve the perimeter and area problems below.

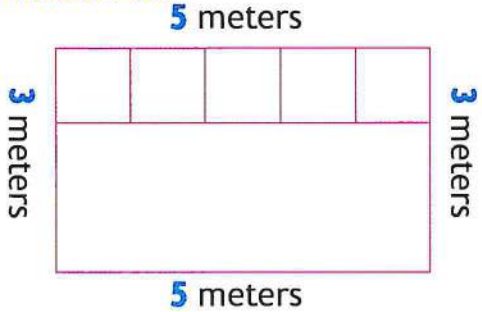
a. Goat Pen



Perimeter = _____ meters

Area = _____ square meters

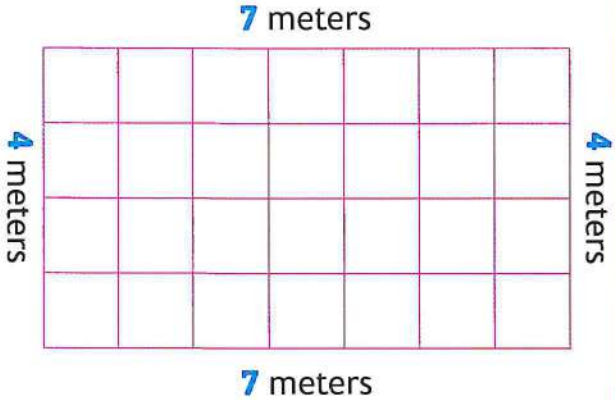
b. Chicken Pen



Perimeter = _____ meters

Area = _____ square meters

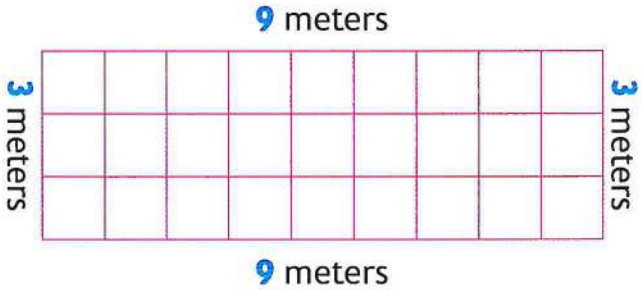
c. A New Goat Pen



Perimeter = _____ meters

Area = _____ square meters

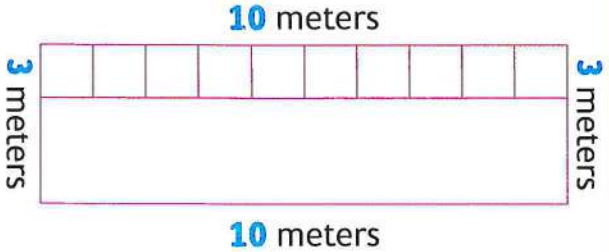
d. Cattle Pen



Perimeter = _____ meters

Area = _____ square meters

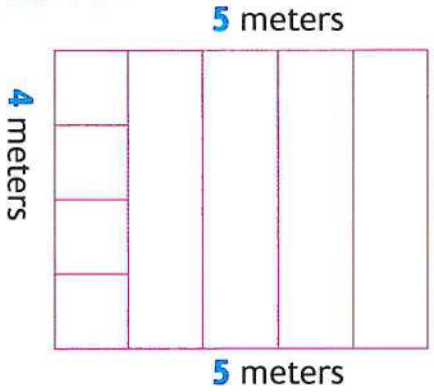
e. Sheep Pen



Perimeter = _____ meters

Area = _____ square meters

f. Duck Pen



Perimeter = _____ meters

Area = _____ square meters

Answer :

g. How much fencing would you need to make ALL of these pens ? _____

h. How many square meters of space would the animals have if you combined ALL of the pens ? _____

4 Look at the picture. Then answer.

Consider the side length of the small square on the grid is 1 meter.

a. What is the area of the backyard ?

_____ square meters

b. What is the perimeter of the house ?

_____ meters

c. Are the area of warehouse and the area of garden equal ? Show your work.

_____

_____

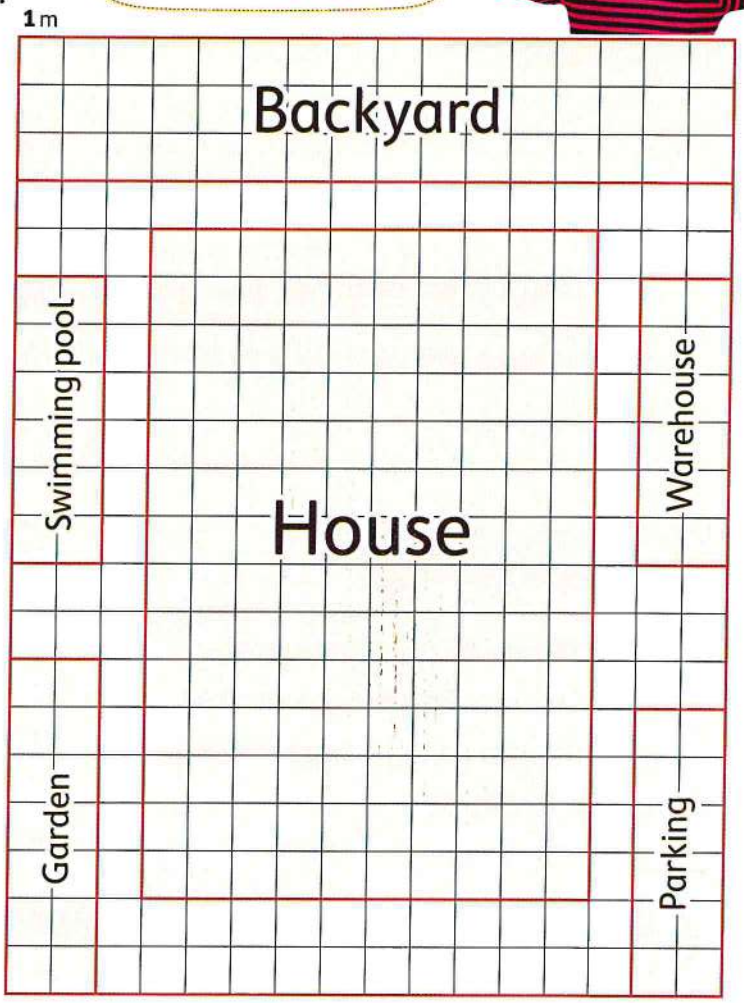
_____

d. Are the perimeter of parking and the perimeter of swimming pool equal ? Show your work.

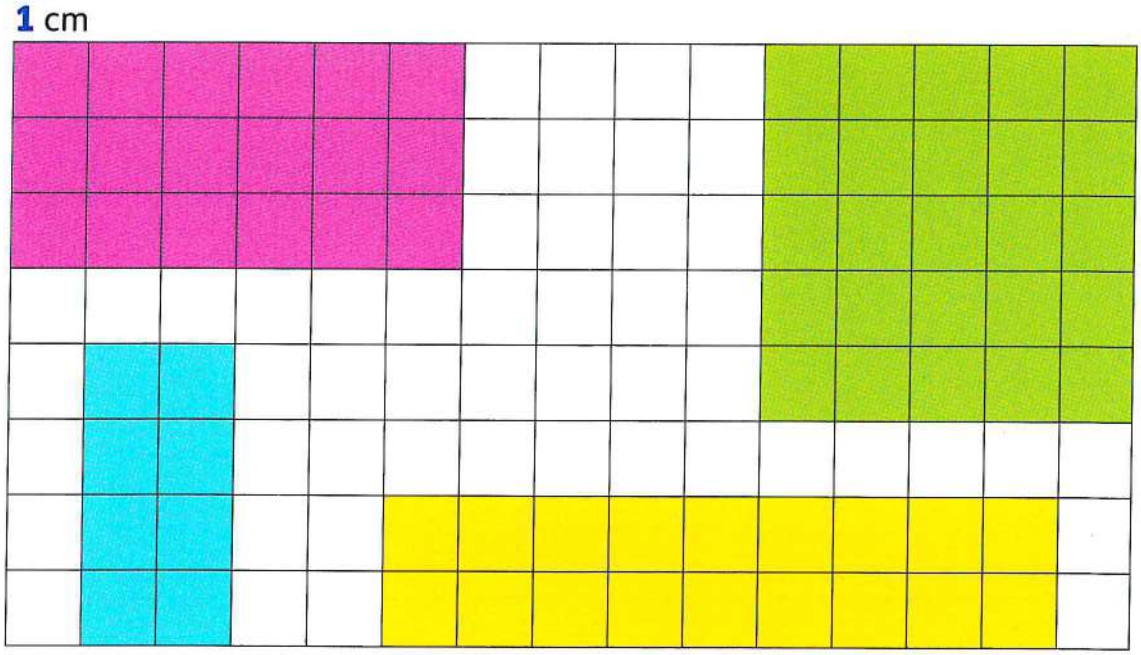
_____

_____

_____



5 Look at the picture. Complete the table. Then answer.



Region	Perimeter in centimeters	Area in square centimeters
Red	_____	_____
Green	_____	_____
Blue	_____	_____
Yellow	_____	_____

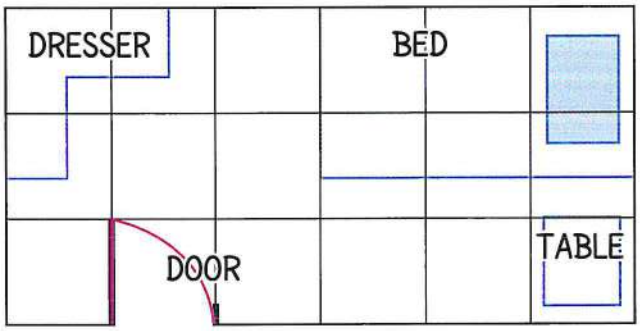
a. **What is the color of the greatest region in area ?** _____

b. Arrange the perimeters of regions in an ascending order.

Order is _____ , _____ , _____ , _____

Challenge

6 Laila wants to put a new desk in her room. She drew a picture of her room to help figure out where it will fit



Does Laila have space for her new desk ? _____

Color where could she put it.

DESK

Place a smiley face

Lessons 3 & 4

- **Area using dimensions**
- **Area using different strategies**

Learn 1 Area of rectangle given its dimensions

Instead of counting square units, you can use a formula to find the area of rectangle.

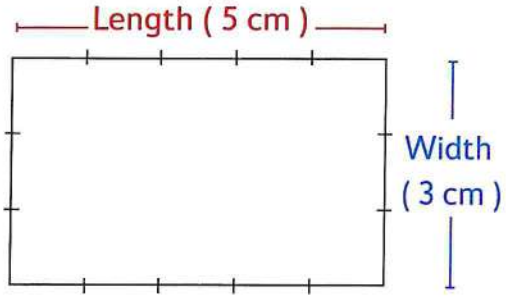
For example :

The dimensions of the rectangle are 5 cm (Length) and 3 cm (Width)

Area = Length × Width → Formula of area of a rectangle

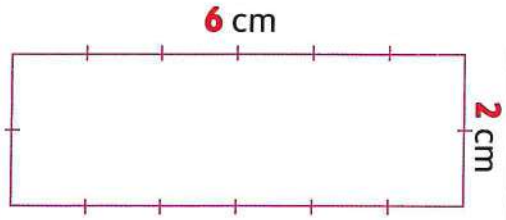
= 5 × 3

= 15 square centimeters



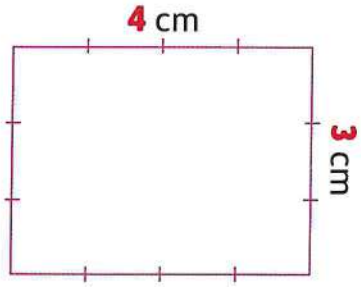
Check

Find the area of each figure.



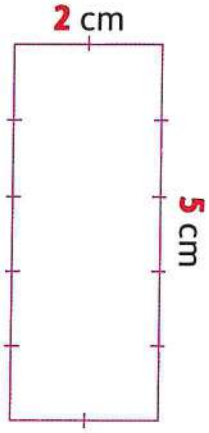
Area = ____ × ____

= ____ square centimeters.



Area = ____ × ____

= ____ square centimeters.



Area = ____ × ____

= ____ square centimeters.

Notes for parents

- Help your child find the area of a rectangle using formula.

Learn 2 Calculating the area using different strategies

- Ahmed wants to put artificial grass in his garden.
  The garden is a rectangle
  5 meters long and **3** meters wide.
  How many square meters of artificial grass does Ahmed need ?

- To find how many square meters of artificial grass, find area of the floor.
- There are different strategies to find the area of the rectangle.

Strategy 1

5 columns

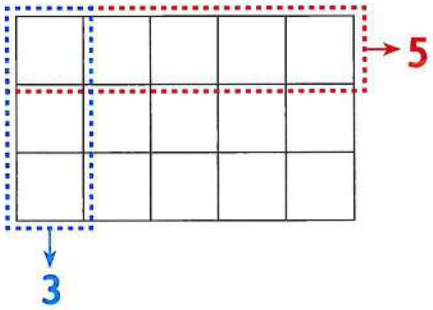
3 rows

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Count all of the squares in the array.

Area = **15** square meters

Strategy 2

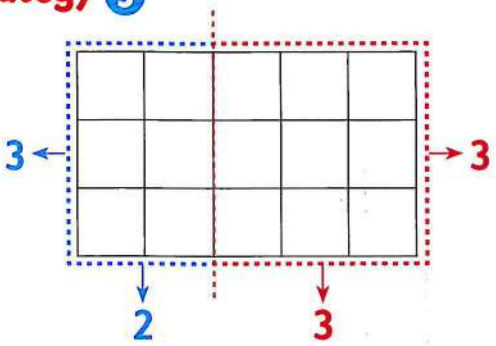


Add

5 + 5 + 5 = 15 or **3 + 3 + 3 + 3 + 3 = 15**

Area = **15** square meters

Strategy 3

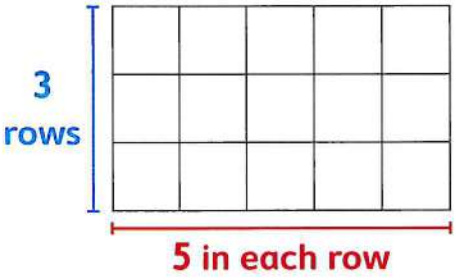


Split the array into two smaller arrays. Solve both and add the sums.

Area = 3 x 5 = (3 x 2) + (3 x 3)

= 6 + 9 = **15** square meters

Strategy 4



Multiply units "Formula of area of a rectangle".

Area = 3 x 5 = **15** square meters

Notes for parents

- Help your child find the area of his/her room.

Exercise 23

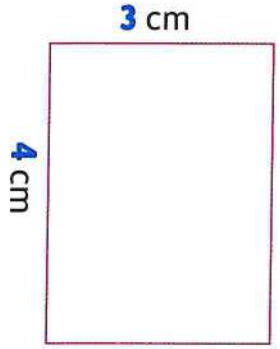
On Lessons 3 & 4

- **Area using dimensions**
- **Area using different strategies**

From the school book

1 Find the area of each figure.

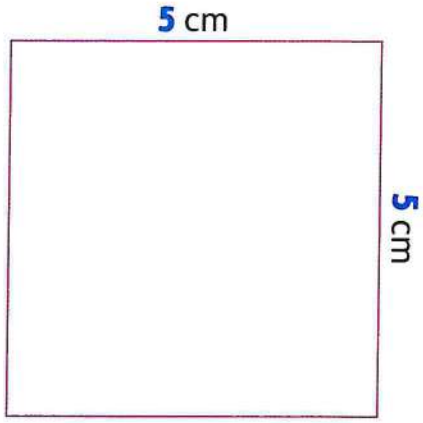
a.



Area = ____ × ____

= ____ square centimeters.

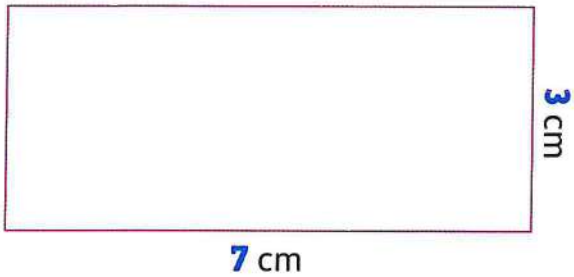
b.



Area = ____ × ____

= ____ square centimeters.

c.



Area = ____ × ____

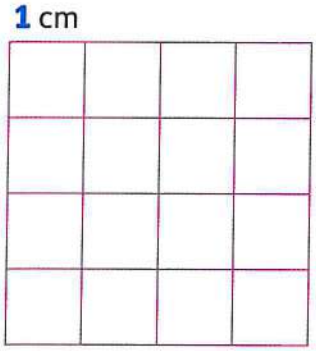
= ____ square centimeters.

d.

Area = ____ × ____

= ____ square centimeters.

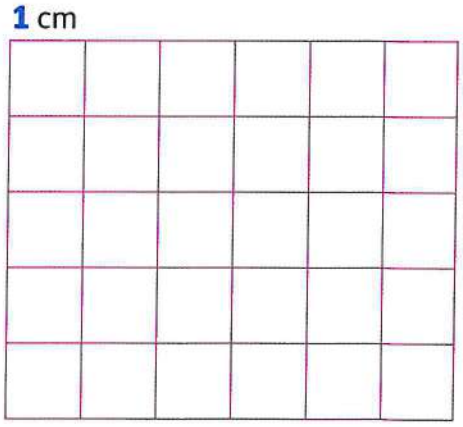
e.



Area = ____ × ____

= ____ square centimeters.

f.

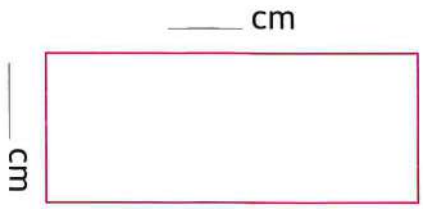


Area = ____ × ____

= ____ square centimeters.

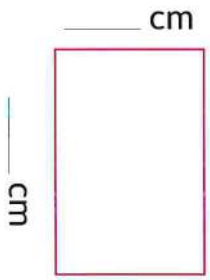
2 Use a centimeter ruler to measure the side lengths. Then find the area of each figure.

a.



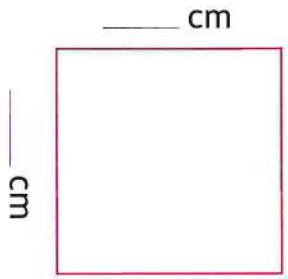
Area = ____ × ____
= ____ square centimeters.

b.



Area = ____ × ____
= ____ square centimeters.

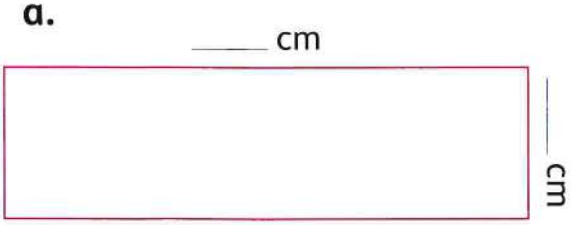
c.



Area = ____ × ____
= ____ square centimeters.

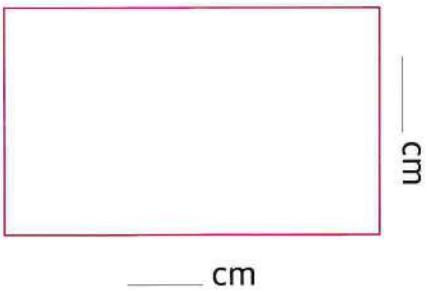
3 Find the area of each figure. Then color the figure with the greatest area in red.

a.



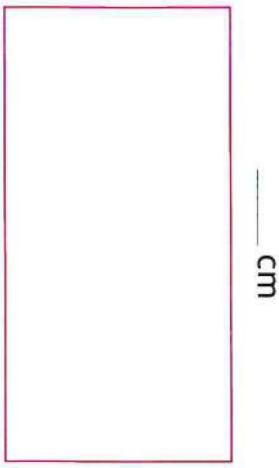
Area = ____ × ____
= ____ square centimeters.

b.



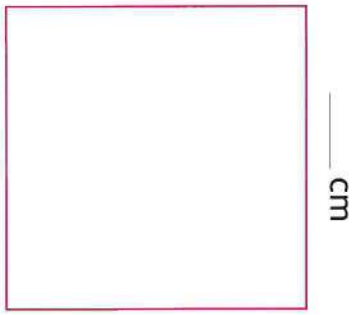
Area = ____ × ____
= ____ square centimeters.

c.



Area = ____ × ____
= ____ square centimeters.

d.



Area = ____ × ____
= ____ square centimeters.

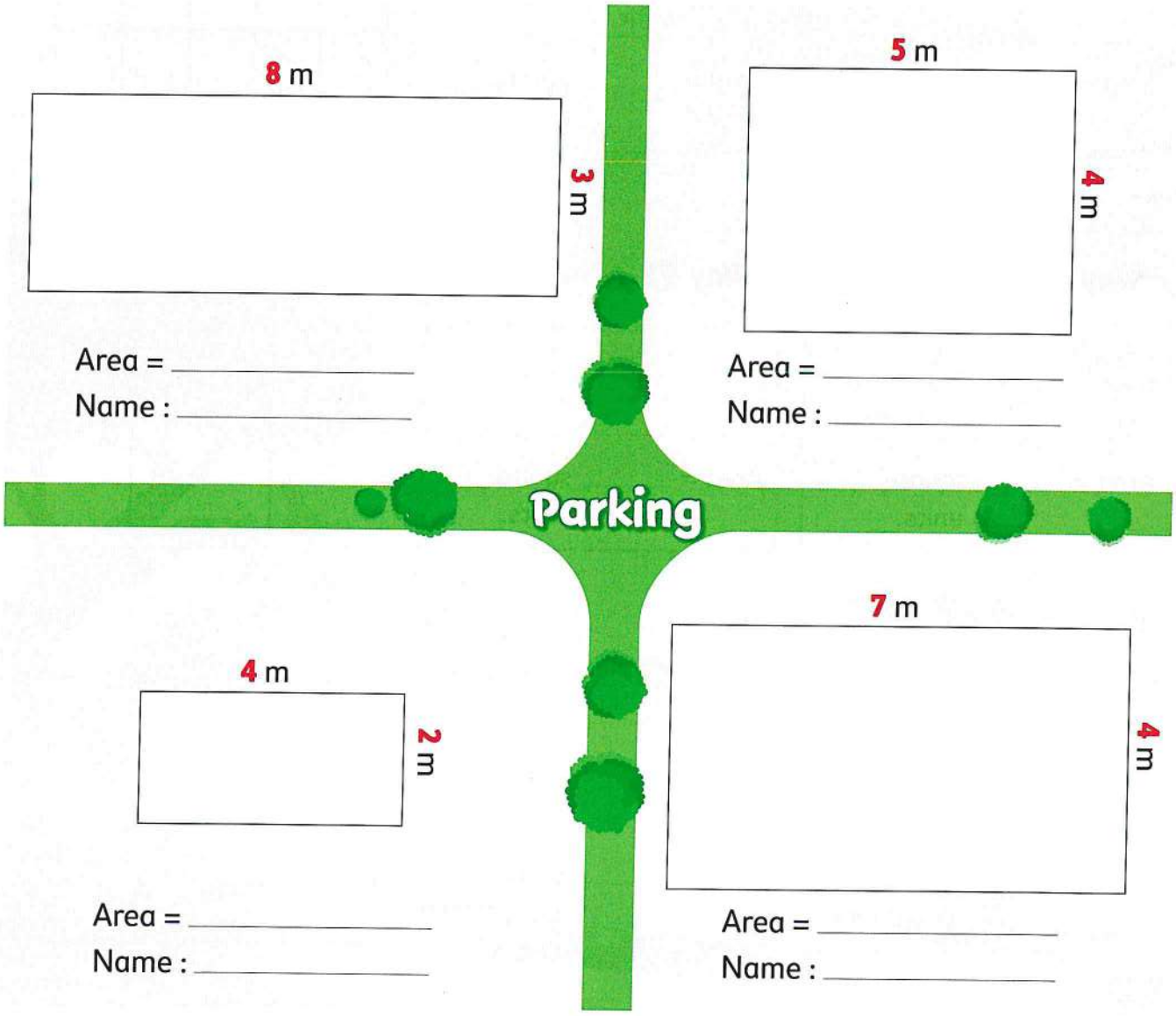
4 **Find the space areas in the parking. Then write the name of each main transport below its suitable space.**

○ **Car** > 18 square meters.

○ **Motorcycle** < 8 square meters.

○ **Lorry** < 30 square meters.
but > 26 square meters.

○ **Bus** > 20 square meters.



5 Find the area of each figure in two ways.

a.

Way 1

_____

_____

_____

Area = _____ square units.

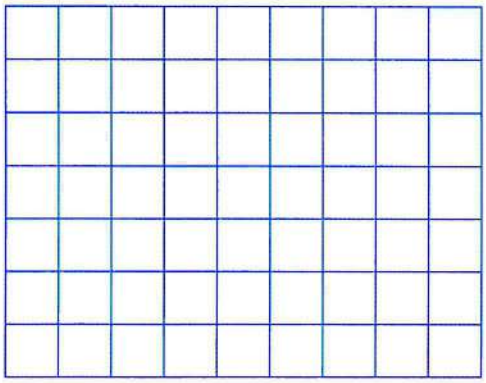
Way 2

_____

_____

_____

Area = _____ square units.



b.

Way 1

_____

_____

_____

Area = _____ square centimeters.

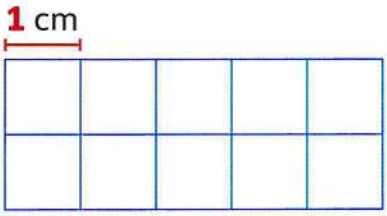
Way 2

_____

_____

_____

Area = _____ square centimeters.



c.

Way 1

_____

_____

_____

Area = _____ square units.

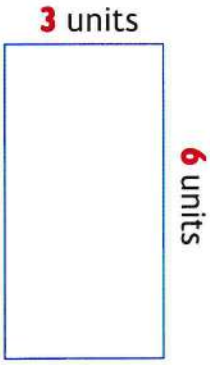
Way 2

_____

_____

_____

Area = _____ square units.



d.

Way 1

_____

_____

_____

Area = _____ square centimeters.

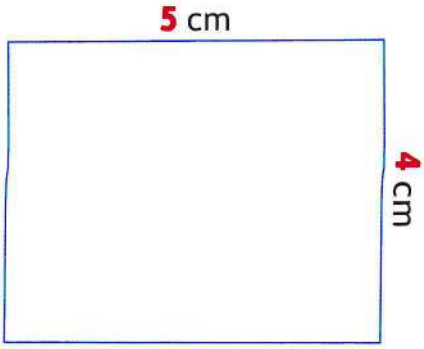
Way 2

_____

_____

_____

Area = _____ square centimeters.



e.

Way 1

_____

_____

_____

Area = _____ square centimeters.

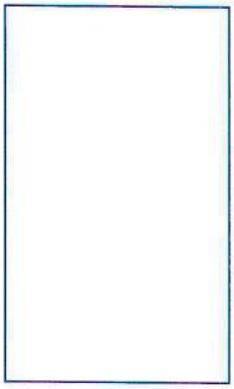
Way 2

_____

_____

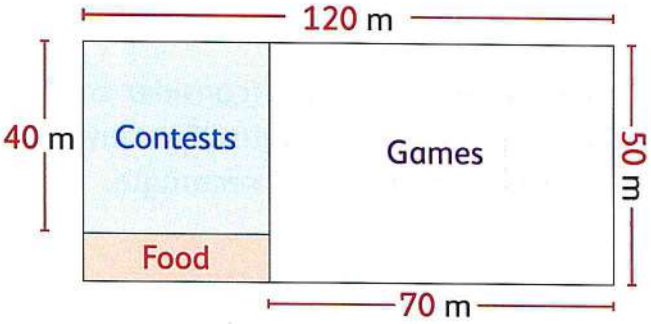
_____

Area = _____ square centimeters.



Challenge

6 The opposite figure shows how a school field was sectioned off for the end-of-year picnic.
What is the area of food section in square meters ? _____



Place a smiley face

Lessons

5 & 6

- **Different perimeters for the same area**
- **Different areas for the same perimeter**

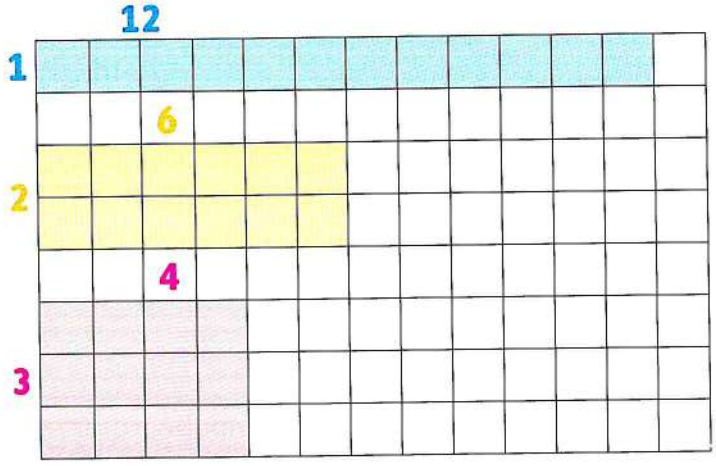
Learn 1 Different perimeters for the same area

- Amgad wants to plant a rectangular flower garden in his backyard.

  The area of the garden has to be 12 square meters , and he wants to use the least amount of fencing possible.

  How long should he make each side so that the perimeter of the garden is as small as possible ?

- **Using the grid below** (consider each square side on the grid = 1 meter), draw possible rectangles that have an area of 12 square units , then find the perimeter of each rectangle.



Perimeter = 1 + 12 + 1 + 12
= 26 length units

Perimeter = 2 + 6 + 2 + 6
= 16 length units

Perimeter = 3 + 4 + 3 + 4
= 14 length units

- **Order the perimeters :** 26 > 16 > 14

  14 meters is the smallest perimeter.

- So, to have a garden with the smallest perimeter possible Amgad should make a rectangle with sides 3 m, 4 m long.

When you make different rectangles with the same area , the perimeter does not stay the same.

Notes for parents

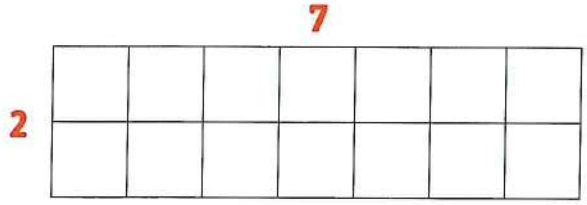
- Train your child to calculate the perimeters of the figures above.

Learn 2 Different areas for the same perimeter

- Shady is framing three pictures with the same perimeter 18 cm
- Does he need the same number of square centimeters of glass for each picture ?

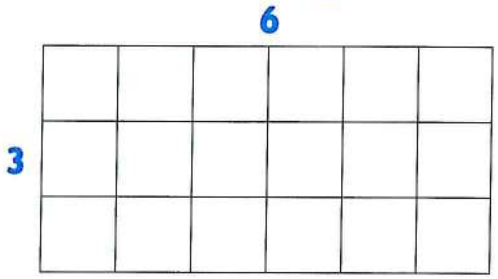
- **To find** how much glass he needs , find the area of each picture.

Picture A



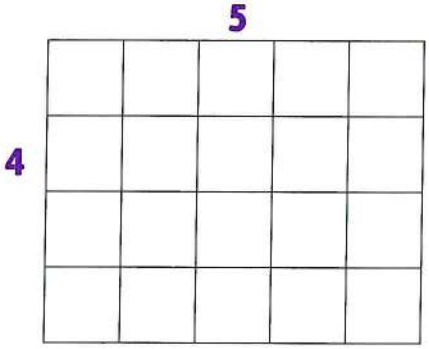
Area = 14 square cm

Picture B

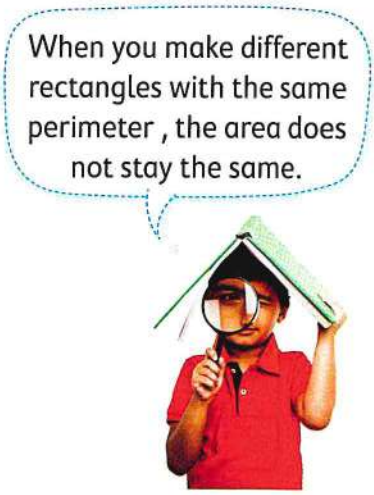


Area = 18 square cm

Picture C



Area = 20 square cm



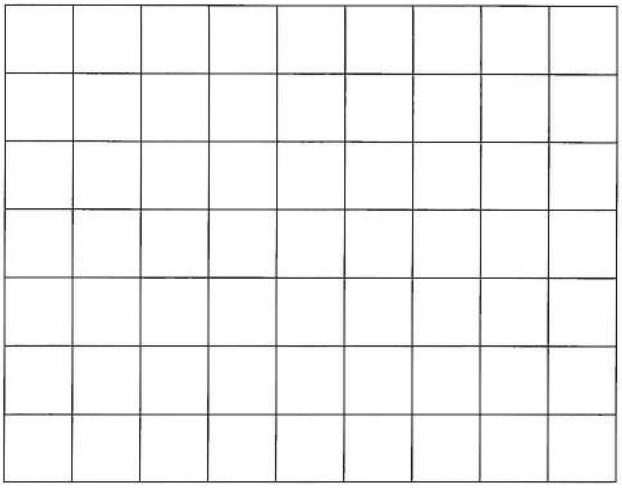
- **So, Shady needs different number of square centimeters of glass.**

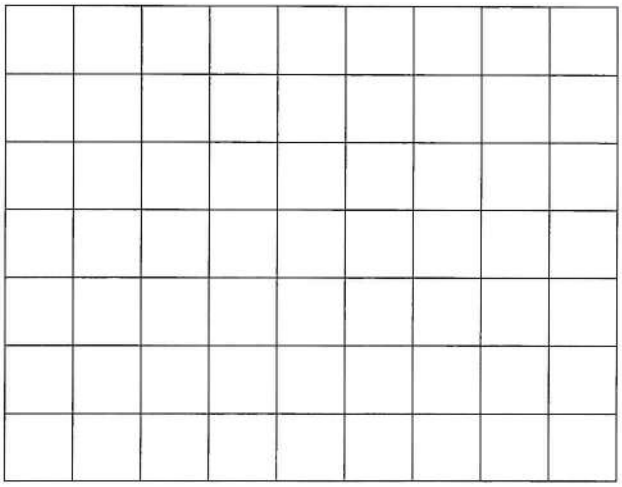
Notes for parents

• Help your child calculate the areas of rectangles using different strategies.

Check

1. Using the grid below , draw two different rectangles have an area of 16 square units. Then find the perimeter of each rectangle.

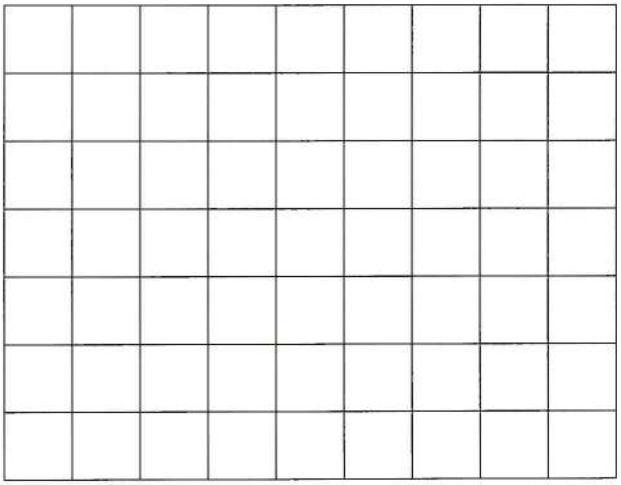


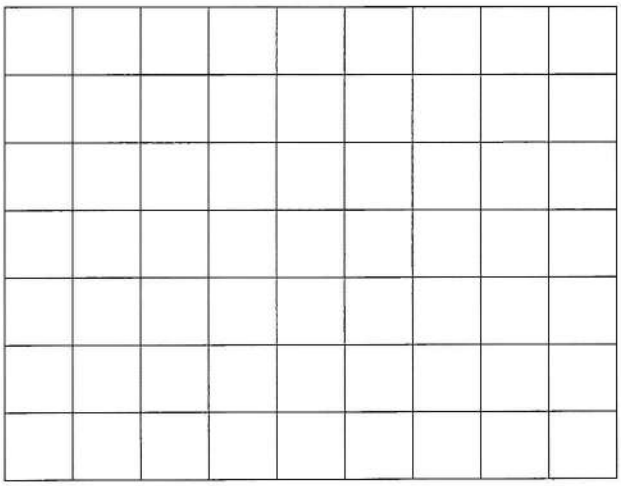


Perimeter = _____

Perimeter = _____

2. Using the grid below , draw two different rectangles have a perimeter of 16 units. Then find the area of each rectangle.





Area = _____

Area = _____

• Help your child draw two rectangles with the same area and the same perimeter.

Exercise

24

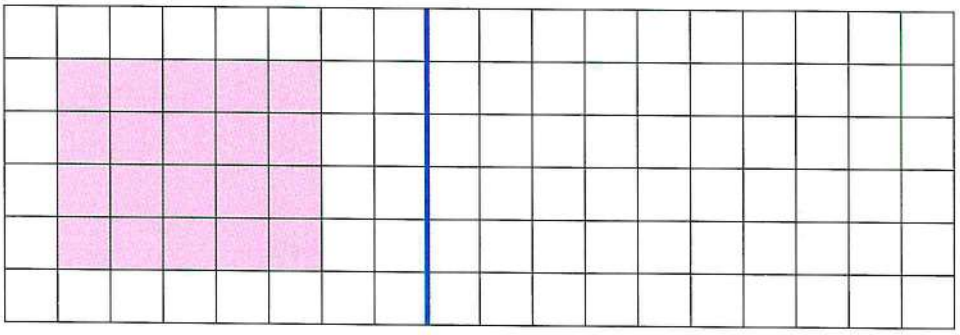
On Lessons 5 & 6

- **Different perimeters for the same area**
- **Different areas for the same perimeter**

From the school book

1 Find the area and the perimeter of the drawn rectangle. Then draw another rectangle with the same area but a different perimeter in each grid and calculate it.

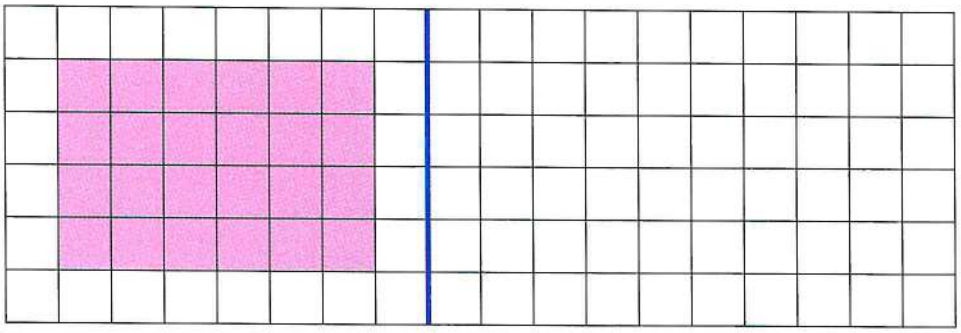
a.



Area = _____ Area = _____

Perimeter = _____ Perimeter = _____

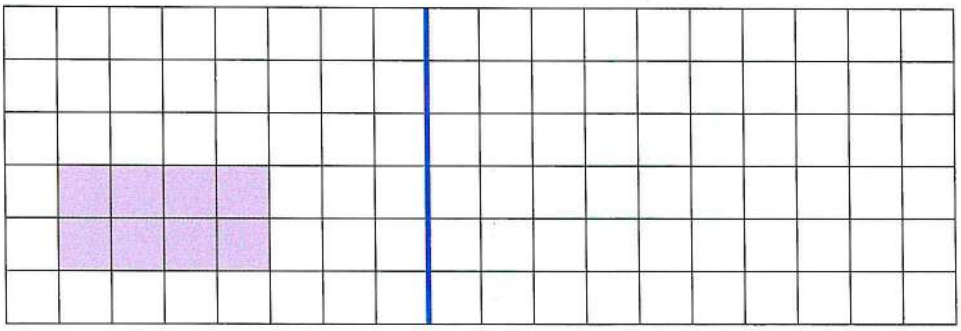
b.



Area = _____ Area = _____

Perimeter = _____ Perimeter = _____

c.

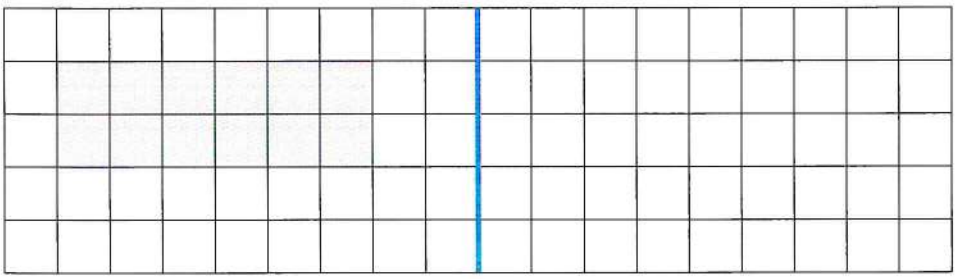


Area = _____ Area = _____

Perimeter = _____ Perimeter = _____

2 Find the area and the perimeter of the drawn rectangle. Then draw another rectangle with the same perimeter but a different area in each grid and calculate it.

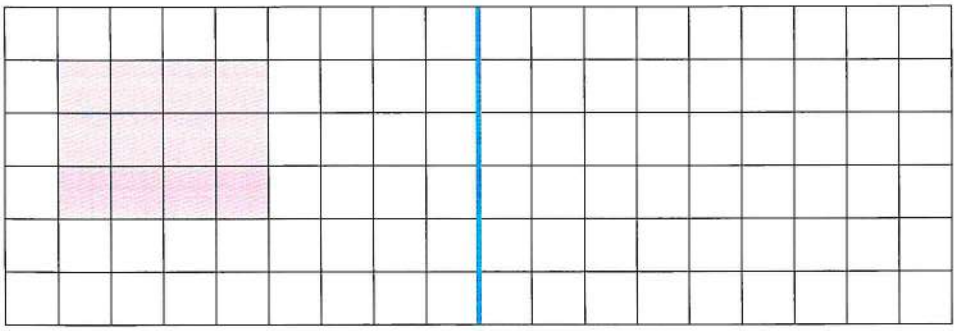
a.



Area = _____ Area = _____

Perimeter = _____ Perimeter = _____

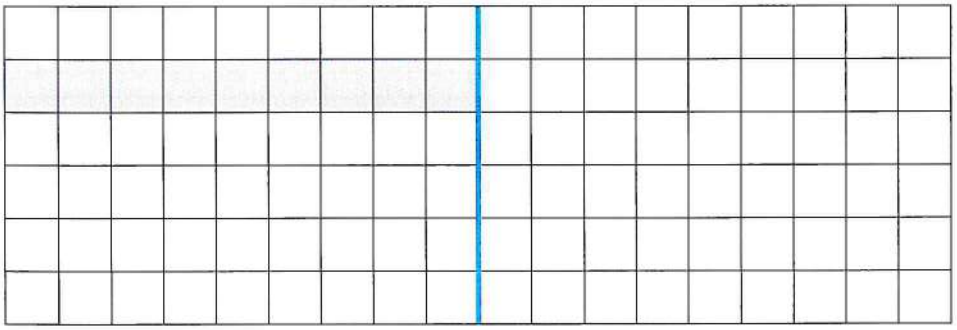
b.



Area = _____ Area = _____

Perimeter = _____ Perimeter = _____

c.



Area = _____ Area = _____

Perimeter = _____ Perimeter = _____

3 Use your geometric tools to draw two different rectangles with an area of 6 square centimeters. Then find the perimeter of each one and compare the two perimeters.

Side lengths are _____ , _____

Perimeter = _____ centimeters.

Side lengths are _____ , _____

Perimeter = _____ centimeters.

4 Use your geometric tools to draw different rectangles with a perimeter of 20 centimeters. Then find the area of each one and compare the two areas.

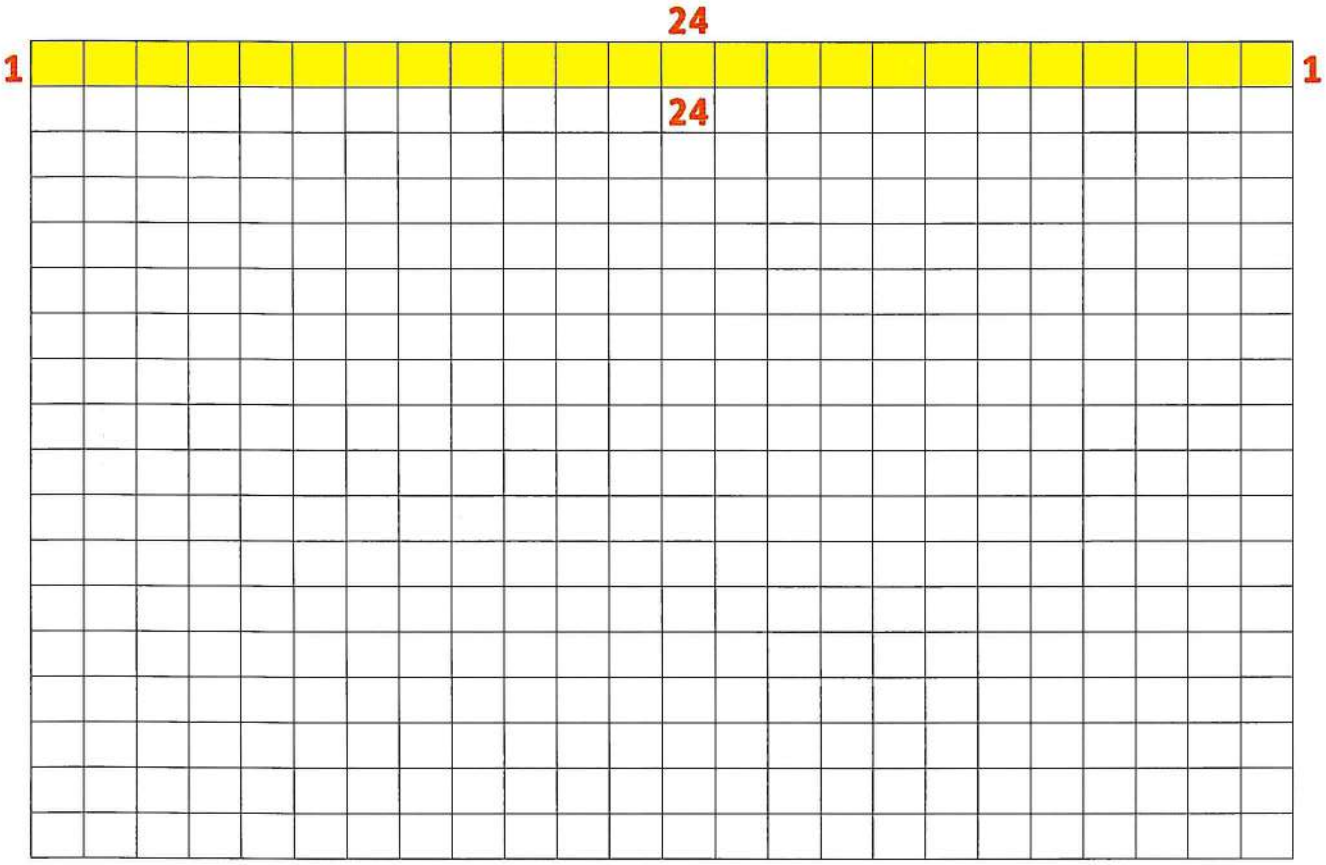
Side lengths are _____ , _____

Area = _____ square cm

Side lengths are _____ , _____

Area = _____ square cm

5 Draw 4 different rectangles with an area 24 square units. Then complete the table below. The first one is done for you.



	Width (length units)	Length (length units)	Area (square units)	Perimeter (length units)
Rectangle 1	1	24	24	50
Rectangle 2	____	____	____	____
Rectangle 3	____	____	____	____
Rectangle 4	____	____	____	____

Challenge

6 Mariam made a frame of a picture with a perimeter of 18 cm and an area of 20 square cm. What are the lengths of the sides ?
‹‹Draw a figure to show your answer››
The side lengths are :
_____ and _____

Place a smiley face

Lesson 7

Applications on perimeter and area

Learn

Yara wants to put a lace border around her picture of dimensions 3 cm and 5 cm

How long of lace border does she need ?

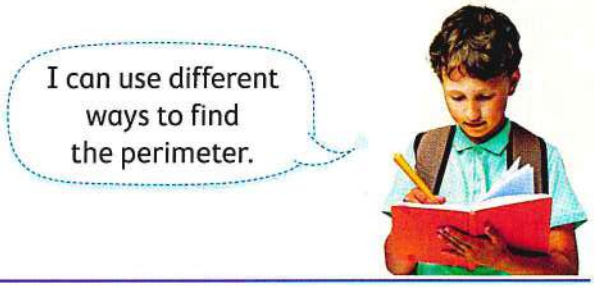
- Determine whether you would find perimeter or area.

  Find the perimeter.

- Write a number sentence to solve.

  Perimeter = 5 + 3 + 5 + 3 = 16 cm

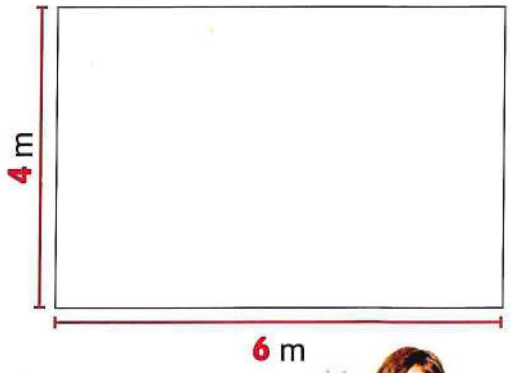
  So, Yara needs **16 cm** of lace border.



Wael's family tiled the floor in their front hall of dimensions 6 m and 4 m

They used square tiles that measure 1 m on each side.

How many tiles did they use ?



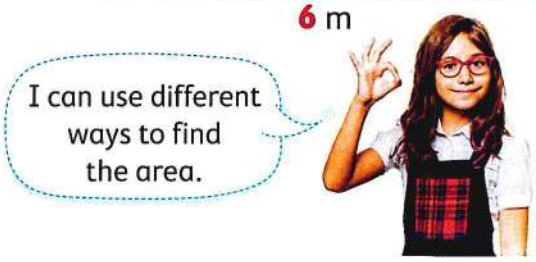
- Determine whether you would find perimeter or area.

  Find the area.

- Write a number sentence to solve.

  Area = 6 × 4 = 24 square meters

  So, they used **24 square meters** of tiles.



Notes for parents

- Help your child find area and perimeter of carpet in his/her room.

Example 1

Hossam is painting one wall in his bedroom.
The wall measures 7 m long and 3 m wide.
What is the area of the wall ?

Solution

The area of the wall = 7 × 3 = 21 square meters

Example 2

A farmer wants to buy fencing to go around his garden.
The garden is 27 m long by 13 m wide.
How much fencing will be need ?

Solution

* You would find the perimeter.
  The perimeter = 27 + 13 + 27 + 13 = 80 m

Check

Solve each of the following.

a. Mona built a backyard pen for her cat.

The length of the pen was 2 meters and the width was 1 meter.

What is the area of the pen ?

_____

_____

b. Yahia wants to make a frame of a picture with 18 cm length and 12 cm width.

What is the length of the frame ?

_____

_____

• Help your child know the meaning of each story problem and when he / she will calculate the area and perimeter.

Exercise

25

On Lesson 7

Applications on perimeter and area

From the school book

1 **Read and solve each of the following story problems. You can draw a figure for help.**

a. Mina built a backyard pen for his puppy.

The length of the pen was 3 meters and the width was 2 meters.

What is the area of the pen ?

b. Farouk is building a patio out of square tiles.

He wants the length of the patio to be 7 tiles across and its width to be 6 tiles from the same type.

How many tiles will he use in all to build the patio ?

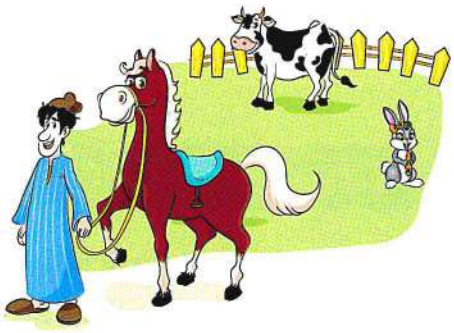
c. A book had a length of 20 cm and a width of 12 cm

What is the perimeter of the book ?

d. A farmer is building a fence around his garden.

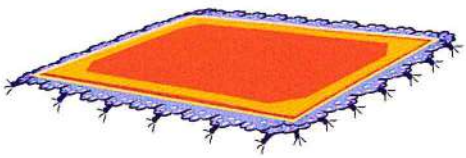
If the garden is 8 meters long and 3 meters wide.

How much fencing does he need to buy ?



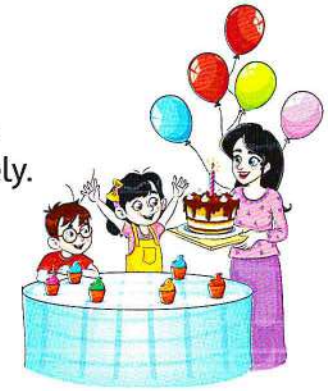
e. A rug is 3 meters long and 2 meters wide.

What is the area of the rug ?



f. Basma orders a party bannar for his brother's birthday party. The length and width of the bannar are 7 m and 2 m respectively.

What is the area of the party banner ?



g. Shaimaa is sewing a border on a square baby blanket. The length of the blanket is 45 centimeters and the width is 45 centimeters.

How long will the border by ?

h. Hany is painting one wall in his bedroom. The wall measures 6 m long and 3 m wide.

What is the area of the wall ?

i. A square with side length 6 cm has a greater area than a rectangle with length 9 cm and width 4 cm. **State true or false.**

Challenge

2 Kareem's school playground is 75 m long and 40 m wide. Ali's school playground is 90 m long and 30 m wide. Kareem and Ali finished a round jogging around their school playgrounds. Who jogged longer ? Explain your answer.

Place a smiley face

Lesson 8

Multiplying by multiples of 10

Learn Multiplying by multiples of 10

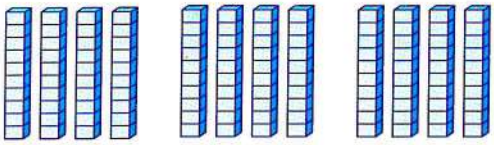
How to find the product of 3 x 40.

It is easy to multiply whole numbers by multiples of 10 using the following strategies.

Notice that
3 x 4 = 12
is a multiplication fact

First strategy

Draw place value blocks which represent 3 groups of 40



3 groups of 40

3 × 4 tens = 120

3 × 40 = 120

Math tip
You can count by 10s to find the product.

Second strategy

Break apart the multiples of 10 as two factors (the number x 10)

then **40 = 4 × 10**

So, **3 × 40 = (3 × 4) × 10**

= 12 × 10 = 120

Math tip
You can multiply
3 x 4 = 12
and put the zero at the end "120"
3 x 40 = 120

Notes for parents

• Help your child recognize the two strategies and ask him/her to multiply 4 x 50 using the strategies.

Example

Complete.

a. 2 × 4 tens = ____ tens = ____

b. 4 × 70 = (____ × ____) × 10 = ____ × ____ = ____

c. 3 × 90 = ____

d. 20 + 20 + 20 = ____ × 20 = ____

e. 8 × ____ = 240

Solution

a. 2 × 4 tens = 8 tens = 80

b. 4 × 70 = (4 × 7) × 10 = 28 × 10 = 280

c. 3 × 90 = 270

d. 20 + 20 + 20 = 3 × 20 = 60

e. 8 × 30 = 240

Check

Complete.

a. 2 × 70 = _____

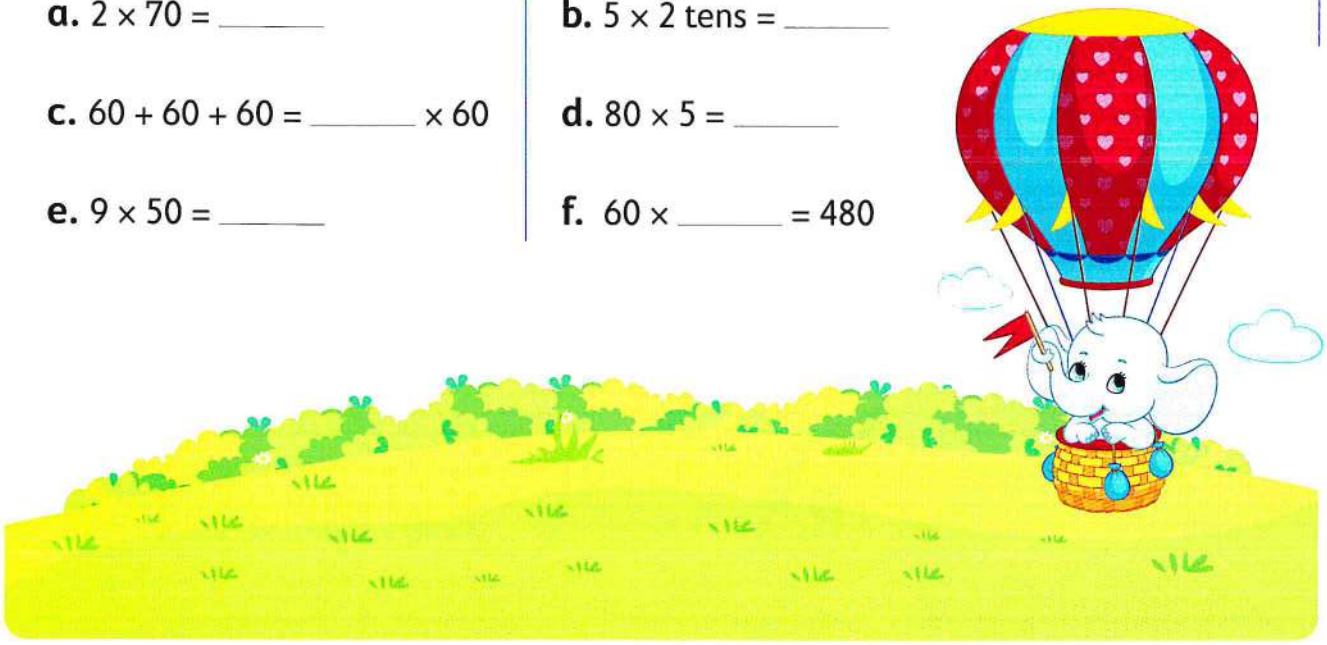
b. 5 × 2 tens = _____

c. 60 + 60 + 60 = _____ × 60

d. 80 × 5 = _____

e. 9 × 50 = _____

f. 60 × _____ = 480



• Ask your child to use place value blocks and count by 10s to help him/her to find the product.

Exercise 26

On Lesson 8

Multiplying by multiples of 10

From the school book

1 Complete the following as the example. You may use place value blocks to help.

Example :

3 × 2 tens = 6 tens

3 × 20 = 60

a. 4 × 3 tens = ___ tens

4 × 30 = ___

b. 2 × 5 tens = ___ tens

2 × 50 = ___

c. 3 × 6 tens = ___ tens

3 × 60 = ___

d. 4 × 7 tens = ___ tens

4 × 70 = ___

e. 6 × 4 tens = ___ tens

6 × 40 = ___

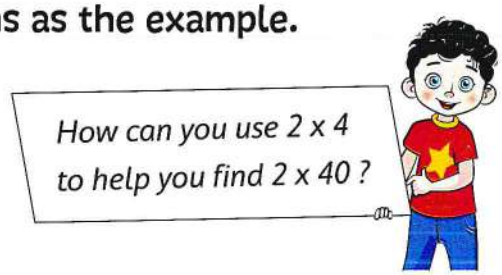
Work area

2 Complete the following. Solve the problems as the example.

Example :

2×40

$=(\underline{2} \times \underline{4}) \times 10 = \underline{8} \times \underline{10} = \underline{80}$



a. 4×50

$=(\_\_ \times \_\_) \times 10 = \_\_ \times \_\_ = \_\_$

b. 8×20

$=(\_\_ \times \_\_) \times 10 = \_\_ \times \_\_ = \_\_$

c. 7×70

$=(\_\_ \times \_\_) \times 10 = \_\_ \times \_\_ = \_\_$

d. 9×90

$=(\_\_ \times \_\_) \times 10 = \_\_ \times \_\_ = \_\_$

e. 3×60

$=(\_\_ \times \_\_) \times 10 = \_\_ \times \_\_ = \_\_$

f. 4×90

$=(\_\_ \times \_\_) \times 10 = \_\_ \times \_\_ = \_\_$

g. 6×20

$=(\_\_ \times \_\_) \times 10 = \_\_ \times \_\_ = \_\_$

h. 7×40

$=(\_\_ \times \_\_) \times 10 = \_\_ \times \_\_ = \_\_$

3 Solve the following problems using any strategy.

a. $3 \times 50 = \_\_\_\_$

b. $2 \times 60 = \_\_\_\_$

c. $8 \times 40 = \_\_\_\_$

d. $5 \times 20 = \_\_\_\_$

e. $8 \times 20 = \_\_\_\_$

f. $3 \times 70 = \_\_\_\_$

g. $6 \times 90 = \_\_\_\_$

h. $7 \times 40 = \_\_\_\_$

i. $4 \times 40 = \_\_\_\_$

j. $80 \times 9 = \_\_\_\_$

k. $60 \times 3 = \_\_\_\_$

l. $70 \times 8 = \_\_\_\_$

m. $90 \times 2 = \_\_\_\_$

n. $50 \times 5 = \_\_\_\_$

o. $10 \times 10 = \_\_\_\_$

4 Choose the correct answer.

a. 7×3 tens = _____ (73 or 21 or 210 or 730)

b. 5×4 tens = $(5 \times$ _____$) \times 10$ (5 or 4 or 20 or 200)

c. 3 groups of 50 = _____ (350 or 15 or 1,500 or 150)

d. 70×1 = _____ tens. (7 or 70 or 700 or 701)

e. 90×0 = _____ (0 or 9 or 90 or 900)

f. 40×8 = _____ (32 or 320 or 408 or 3200)

g. $(3 \times 4) \times 10 = 3 \times$ _____ (14 or 140 or 120 or 40)

h. $4 \times 60 = 3 \times$ _____ (8 or 80 or 60 or 240)

5 Complete.

a. $3 \times 2 \times 10$ = _____

b. $4 \times 5 \times 10$ = _____

c. $5 \times 9 \times 10$ = _____

d. $7 \times 8 \times 10$ = _____

e. $2 \times$ _____ tens = 40

f. $5 \times$ _____ tens = 350

g. $9 \times$ _____ tens = 180

h. $6 \times$ _____ tens = 120

i. $4 \times$ _____ $\times 10 = 120$

j. $2 \times$ _____ $\times 10 = 140$

k. _____ $\times 3 \times 10 = 90$

l. _____ $\times 6 \times 10 = 60$

m. $3 \times$ _____ $= 150$

n. _____ $\times 40 = 80$

o. $7 \times$ _____ $= 210$

p. _____ $\times 50 = 250$

q. $4 \times$ _____ $= 360$

r. _____ $\times 60 = 180$

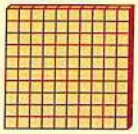
Challenge

6 Solve the problem : 3×200

_____

_____

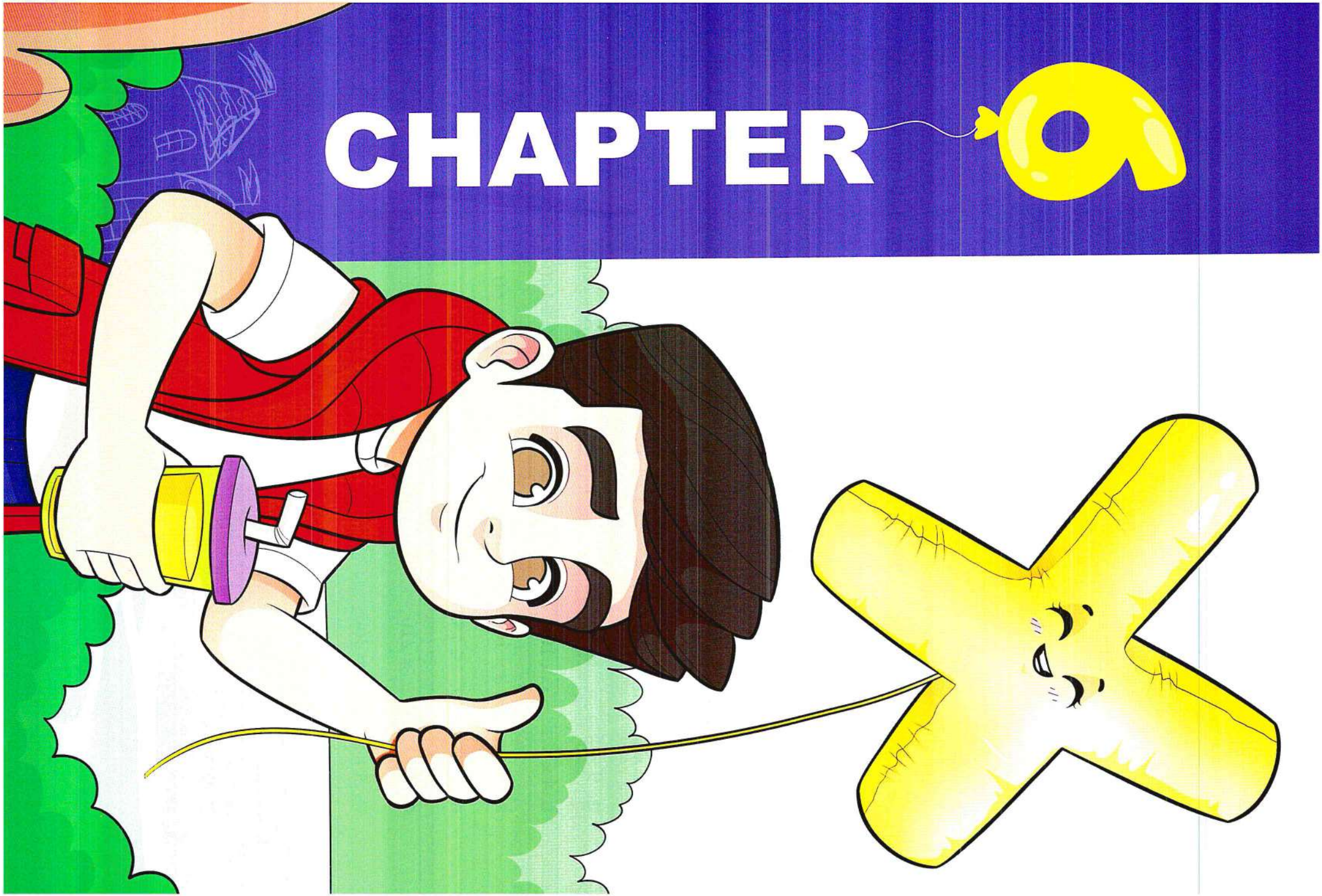
Hint



= 100

Place a smiley face

CHAPTER 0



Outcomes of chapter six :

At the end of chapter six, your child will be able to:

▶ **Lesson 1 :**

- **Patterns of multiplying by multiples of 10**
- Explain patterns observed when multiplying by multiples of 10.

▶ **Lesson 2 :**

- **Strategies of multiplying by 9**
- Investigate and apply patterns and strategies when multiplying by 9.
- Teach others one strategy for multiplying by 9.

▶ **Lesson 3 :**

- **Facts on multiplication and addition**
- Identify patterns in multiplication and addition facts.
- Explain how patterns observed in multiplication and addition facts can be helpful when solving problems.
- Apply strategies to solve addition and multiplication facts quickly and accurately.

▶ **Lesson 4 :**

- **Comparing and ordering numbers of different forms**
- Identify and describe patterns in the place value system up to the hundred thousands place.
- Apply strategies for ordering numbers.

▶ **Lesson 5 :**

- **Addition strategies**
- Apply a variety of strategies to solve addition problems.
- Explain the importance of learning different problem-solving strategies.

▶ **Lesson 6 :**

- **Subtraction strategies**
- Explain the relationship between addition and subtraction.
- Apply strategies to subtract two numbers up to four digits.
- Use addition to check answers to subtraction problems.

▶ **Lesson 7 :**

- **Applications on addition and subtraction**
- Apply strategies to solve addition and subtraction story problems.
- Reflect on learning to identify areas of strength and opportunities for growth.

▶ **Lessons 8 & 9 :**

- **Capacity**
- **Reading capacity**
- Define volume as the measurement of the capacity of a container.
- Explain the relationship between milliliters and liters.
- Estimate the size of a milliliter of water.
- Identify the best unit to measure the capacity of a given container.
- Read volume measurements on a standard labeled container.
- Write what he/she has learned about capacity.

Lesson 1

Patterns of multiplying by multiples of 10

Learn

- **Multiplication facts and place value patterns can help you multiply.**

For example :

If you know **2 × 4 = 8,** then you can use mental math to find :

2 × 40 , 2 × 400 and 2 × 4,000

2 × 4 = 8 ← multiplication fact
2 × 40 = 80
2 × 400 = 800
2 × 4,000 = 8,000

Math tip
As the numbers of zeroes in the factor increases, the number of zeroes in the product increases.

Multiplication strategies

How to find 5 × 30

Here are some strategies to use.

These strategies can be used when multiply by hundreds and thousands.

First strategy

Use the multiplication fact and patterns to help you multiply.

Where → **5 × 3 = 15**

Then → **5 × 30 = 150**

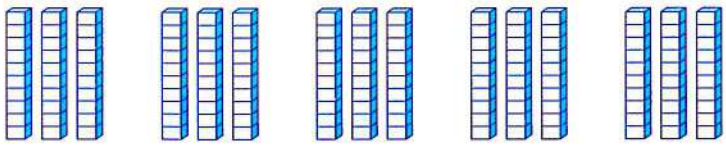
Second strategy

Split the multiples of 10 as two factors "30 = 3 × 10"

5 × 30
=(5 × 3) × 10
= 15 × 10 = 150

Third strategy

Draw place value blocks which represent 5 groups of 30



5 × 3 tens = 15 tens

5 × 30 = 150

Math tip
You can count by 10 s on drawings to find the product.

Notes for parents

- Ask your child to find the product of 5 × 300 using multiplication fact and patterns.
- Make sure that your child recognize the strategies and ask him/her to use them to find the product of 3 × 70

Exercise 27

On Lesson 1

Patterns of multiplying by multiples of 10

From the school book

1 Complete the following.

a.

3 × 10	____
3 × 100	____
3 × 1000	____

b.

2 × 3	____
2 × 30	____
2 × 300	____
2 × 3,000	____

c.

4 × 6	____
4 × 60	____
4 × 600	____
4 × 6,000	____

d.

7 × 4	____
7 × 40	____
7 × 400	____
7 × 4,000	____

e.

5 × 6	____
5 × 60	____
5 × 600	____
5 × 6,000	____

f.

5 × 7	____
5 × 70	____
5 × 700	____
5 × 7,000	____

2 Solve the problems below. Split the multiples of 10 into 10 and the other factor. For example, 40 has the factors 10 and 4.

Example : 8 × 40 (8 × 4) × 10 = 320

a. 3 × 90 (____ × ____) × 10 = ____

b. 4 × 80 (____ × ____) × 10 = ____

c. 9 × 20 (____ × ____) × 10 = ____

d. 6 × 30 (____ × ____) × 10 = ____

e. 8 × 50 (____ × ____) × 10 = ____

f. 7 × 30 (____ × ____) × 10 = ____

g. 6 × 70 (____ × ____) × 10 = ____

h. 5 × 40 (____ × ____) × 10 = ____

3 Find the following products.

a. 3 × 40 = ____

b. 2 × 50 = ____

c. 4 × 60 = ____

d. 7 × 30 = _____	**e.** 5 × 50 = _____	**f.** 4 × 80 = _____
g. 6 × 700 = _____	**h.** 9 × 300 = _____	**i.** 5 × 100 = _____
j. 3 × 200 = _____	**k.** 4 × 5,000 = _____	**l.** 6 × 3,000 = _____
m. 2 × 9,000 = _____	**n.** 5 × 8,000 = _____	**o.** 8 × 7,000 = _____

4 Match.

a. 4 × 20	**b.** 3 × 60	**c.** 5 × 70	**d.** 8 × 30

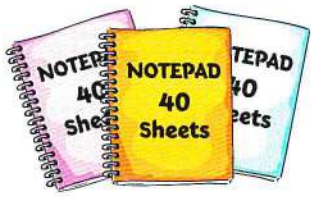
240	350	80	180

5 Complete.

a. 3 × _____ = 150	**b.** _____ × 30 = 210
c. _____ × 500 = 4,500	**d.** _____ × 600 = 1,200
e. _____ × 2,000 = 8,000	**f.** 9 × _____ = 27,000
g. 7 × _____ = 1,400	**h.** 1 × _____ = 4,000

6 Answer the following problems.

a. How many sheets are in **3** notepads ?



_____

b. How many hats are in **4** bags ?

_____

c. How many stickers are in **5** packs ?

_____

d. Amir bought 3 books to read.
Each book costs **40** pounds.
How much did Amir pay ?

_____

e. A fruit seller sells every day **60** kilograms of fruit.
How many kilograms does the fruit seller sell in 4 days ?

_____

Challenge

7 Malek bought a box of cards. In the box there were 6 smaller boxes, and in each of those boxes there were 6 packs of 10 cards. To find the total number of cards he bought, Malek wrote this equation : $6 \times 60 = 360$.
Is he correct ? Explain how you know.

_____

_____

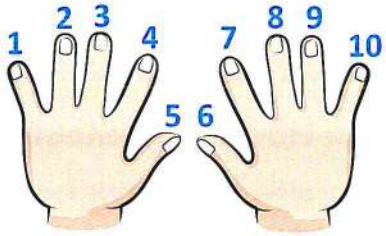
Place a smiley face

Lesson 2

Strategies of multiplying by 9

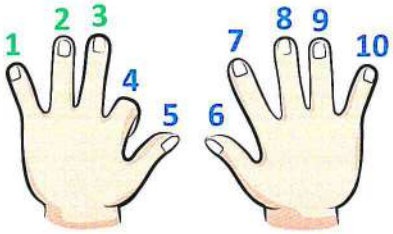
Learn 1 Finger using strategy

- Put both hands on your desk , palms down. Mentally number your fingers from left to right.



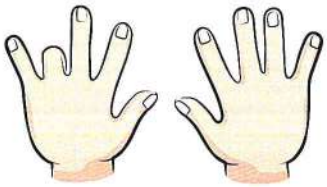
- To find 4 × 9, bend down finger number 4 Fingers to the left of the bent finger show the number of tens in the product.
- Fingers to the right of the bent finger show the number of ones in the product.

4 × 9 = 36

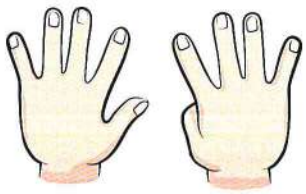


Check

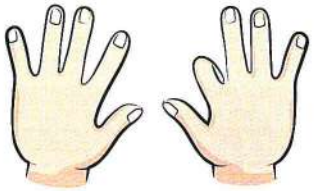
Solve the following by using figures.



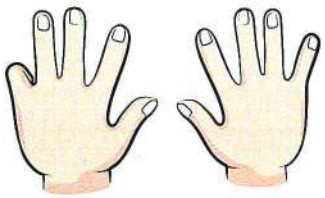
2 × 9 = _____



6 × 9 = _____



7 × 9 = _____



1 × 9 = _____

Notes for parents

- Ask your child to find the product of 5 × 9 using his/her fingers.

Learn 2 List of equations strategy

What's the pattern ?

Bassem and Sarah must find 8 × 9. They look for patterns enable to help.

9s facts

1 × 9 = 9
2 × 9 = 18
3 × 9 = 27
4 × 9 = 36
5 × 9 = 45
6 × 9 = 54
7 × 9 = 63
8 × 9 = ?

The ones digit goes down by 1 each time. So the next ones digit is 2. The tens digit goes up by 1 each time. So the next tens digit is 7. So, 8 × 9 = 72

I see a different pattern. The tens digit is 1 less than the first factor. The digits of the product add up to 9

8 - 1 = 7
8 × 9 = 72
7 + 2 = 9

Multiples of 9 song

Notice that :

The sum of the tens and ones digits in each product is 9

9 × 2 = 18 , 1 + 8 = 9 | 9 × 5 = 45 , 4 + 5 = 9 | 9 × 7 = 63 , 6 + 3 = 9

Check

Solve the following by using pattern.

3 × 9 = ____ 9 × 4 = ____ 9 × 6 = ____

5 × 9 = ____ 7 × 9 = ____ 9 × 9 = ____

• Ask your child to find the product 7 × 9 using pattern.

Learn 3 120-chart strategy

Complete coloring skip-count forward by 9s

Notice the diagonal pattern of products of multiplying by 9 :
9, 18 , 27 , 36, 45, 54, 63, 72, 81

111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Check

Complete.

45 , 54 , _____ , 72.

18 , 27 , _____ , _____ .

63 , 72 , _____ , _____ .

9 , _____ , 27 , _____ .

36 , 45 , _____ , _____ .

27 , _____ , _____ , 54.

Notes for parents

- Ask your child to skip-counting forward by 9's.

Learn 4 Ten facts strategy

Find : 4 × 9 = ?

First

You can think of the problem as

4 × 10 = 40

Second

Subtract one of the 4s

$$\begin{array}{r} 40 \\ -\ \ 4 \\ \hline 36 \end{array}$$

4	4	4	4	4	4	4	4	4	~~4~~

Check

1. To find : 8 × 9 = ? Complete.

8 × 10 = _____ Then _____ − 8 = _____

Then 8 × 9 = _____

2. To find : 5 × 9 = ? Complete.

5 × 10 = _____ Then _____ − 5 = _____

Then 5 × 9 = _____

• Ask your child to find the product of 10 × 10 using ten fact strategy.

Exercise 28

On Lesson 2

Strategies of multiplying by 9

1 Find the product using different strategies.

a. 3 × 9 = _____

b. 2 × 9 = _____

c. 6 × 9 = _____

d. 4 × 9 = _____

e. 9 × 5 = _____

f. 9 × 8 = _____

g. 1 × 9 = _____

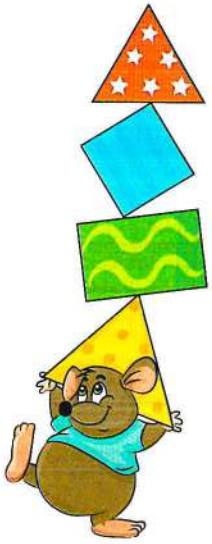
h. 0 × 9 = _____

i. 9 × 7 = _____

j. 9 × 10 = _____

2 Join.

a.	7 × 9	36
b.	72	9 × 5
c.	4 × 9	63
d.	45	9 × 8



3 Complete in the same pattern.

a. 72 , 81 , _____ , 99

b. 27 , 36 , _____ , _____

c. 45 , 54 , _____ , _____

d. 9 , 18 , 27 , _____ , _____

e. 36 , 27 , _____ , _____

f. 18 , _____ , _____ , 45

4 Complete.

a. _____ × 9 = 36	b. 9 × _____ = 81	c. _____ × 9 = 18
d. 9 × _____ = 27	e. _____ × 9 = 9	f. 9 × _____ = 54
g. _____ × 9 = 72	h. 9 × _____ = 63	i. _____ × 9 = 0
j. 9 × _____ = 45	k. _____ × 9 = 90	l. _____ × 9 = 27

5 Find the product.

a. 20 × 9 = ____	b. 9 × 50 = ____	c. 300 × 9 = ____
d. 9 × 600 = ____	e. 4,000 × 9 = ____	f. 9 × 8,000 = ____

6 Choose the correct answer.

a. 9 × 4 [ ] 6 × 6 (< or = or >)

b. 9 × 20 [ ] 100 – 80 (< or = or >)

c. 9 × 2 = 3 × _____ (4 or 5 or 6)

d. 9 × 13 = (9 × 10) + (9 × _____) (2 or 3 or 4)

e. 400 + 50 = 9 × _____ (5 or 50 or 500)

f. 6 × 9 = _____ (45 or 54 or 63)

g. 9 × 0 = 9 – _____ (1 or 0 or 9)

Place a smiley face

Lesson 3

Facts on multiplication and addition

Learn

- Here are some addition and multiplication facts will help you to solve addition and multiplication problems.

Adding to zero

The sum of zero and any number is that number.

Example : $0 + 3 = 3$

Multiplying by zero

The product of zero and any number is zero.

Example : $0 \times 3 = 0$

Adding to 1

The sum of 1 and any number is the number which just comes after.

Example : $1 + 3 = 4$

Multiplying by 1

The product of 1 and any number is that number.

Example : $1 \times 3 = 3$

Adding in any order

Addends can be added in any order and the sum does not change.

Example : $3 + 2 = 5$

$2 + 3 = 5$

Multiplying in any order

Factors can be multiplied in any order and the product does not change.

Example : $3 \times 2 = 6$

$2 \times 3 = 6$

Doubling numbers

Adding the same number twice is doubling it (multiplying by 2).

Example : $3 + 3 = 2 \times 3$

$6 = 6$

Multiplying big numbers

Break apart big numbers into two smaller numbers.

Example : 6×7

$= (6 \times 5) + (6 \times 2)$

$= 30 + 12$

$= 42$

Notes for parents

- Help your child recognize the facts of addition and multiplication and ask him/her to explain how they similar or different.

Exercise **29**

On Lesson 3

Facts on multiplication and addition

1 Match the equal results.

a. 4 + 0 b. 3 × 4 c. 0 + 0 d. 3 + 4 e. 4 + 4

4 × 3 | 4 + 3 | 4 × 1 | 2 × 4 | 2 × 0

2 Use addition or multiplication facts to find results.

a. 5 × 1 = ___	b. 6 + 0 = ___	c. 8 × 9 = ___
d. 2 × 2 = ___	e. 3 + 7 = ___	f. 9 × 0 = ___
g. 10 + 5 = ___	h. 6 × 4 = ___	i. 5 + 6 = ___
j. 6 + 6 = ___	k. 2 × 10 = ___	l. 0 × 0 = ___
m. 5 + 10 = ___	n. 1 × 8 = ___	o. 4 × 10 = ___
p. 0 + 10 = ___	q. 4 × 5 = ___	r. 9 + 2 = ___
s. 1 × 1 = ___	t. 7 + 7 = ___	u. 1 + 6 = ___
v. 9 × 9 = ___	w. 10 × 0 = ___	x. 5 + 5 = ___
y. 8 + 1 = ___	z. 1 × 2 = ___	

3 Check the following problems if add or multiply. Find the results.

a. Amgad bought **3** toys. Each toy costs **5** pounds.
How much money did Amgad pay ?

Solve : _____

Check
Add Multiply

b. Sarah read **4** books in a month. In the next month she read **5** books.
How many books did she read in the two months ?

Solve : _____

Check
Add Multiply

c. Youssef has **5** sets of coloring pencils. Each set has **6** pencils.
How many pencils does Youssef have in all ?

Solve : _____

Check
Add Multiply

4 Complete the missing numbers.

a. 3 × _____ = 7 × 3

b. 4 × _____ = 0

c. 6 + _____ = 7

d. _____ × 5 = 5

e. _____ + 4 = 5

f. 9 + 9 = _____ × 2

g. _____ + 0 = 6

h. 8 + _____ = 7 + 8

i. 1 + _____ = 9

j. 7 + _____ = 7

k. 7 × 8 = (7 × _____)+(7 × 7)

l. 8 × _____ = (8 × 10)+(8 × 2)

5 Choose the correct answer.

a. $0 \times 5 = 7 \times$ _____ (5 or 3 or 0)

b. $7 + 0 = 7 \times$ _____ (0 or 1 or 7)

c. $9 \times 5 = (9 \times 3) + (9 \times$ _____ $)$ (8 or 3 or 2)

d. $3 \times 2 = 3 +$ _____ (2 or 3 or 6)

e. $5 + 5 =$ _____ $\times 2$ (5 or 10 or 3)

f. $1 + 5 = 6 \times$ _____ (0 or 1 or 2)

g. $5 \times 2 = 10 +$ _____ (0 or 1 or 2)

h. $3 \times 4 = 0 +$ _____ (3 or 4 or 12)

i. $7 \times 0 = 7 -$ _____ (0 or 7 or 1)

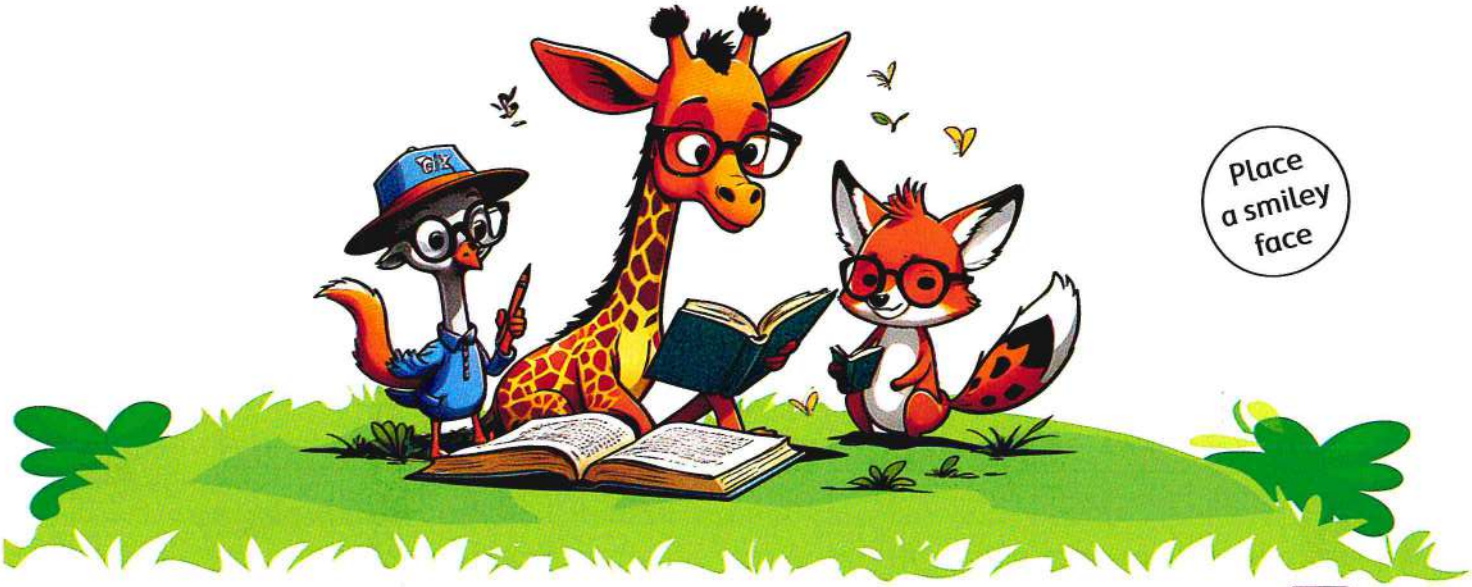
j. $6 + 0 = 3 \times$ _____ (0 or 2 or 6)

k. $1 \times 10 = 1 +$ _____ (10 or 0 or 9)

Challenge

6 Put × or +.

a. 8 ◯ 0 = 8	b. 5 ◯ 1 = 5	c. 8 ◯ 2 = 10
d. 1 ◯ 4 = 5	e. 0 ◯ 10 = 0	f. 2 ◯ 4 = 8



Place a smiley face

Lesson 4

Comparing and ordering numbers of different forms

Remember 1 The value and the place value

- The value of each digit in any number depends on its place in this number.

Example :

Notice the value and place value of each digit in the number 4 6 5 , 2 7 3

4 6 5 , 2 7 3

4 is in the hundred thousands place	6 is in the ten thousands place	5 is in the thousands place	2 is in the hundreds place	7 is in the tens place	3 is in the ones place
Its value is 400,000	Its value is 60,000	Its value is 5,000	Its value is 200	Its value is 70	Its value is 3

- **Different forms of writing a number :**
  - Standard form : 465,273
  - Expanded form : 400,000 + 60,000 + 5,000 + 200 + 70 + 3
  - Word form : Four hundred sixty-five thousand, two hundred seventy-three.

Check Complete the table.

Number	Place value of circled digit	Value of circled digit
35,276	_____	_____
179,065	_____	_____
2,351	_____	_____
42,678	_____	_____
203,491	_____	_____

Notes for parents

- Help your child review on the value and the place value for 6-digit number.

Remember 2 Comparing and ordering numbers

• How do you compare big numbers ?

Compare 471,678 and 89,243

- 471,678 has more digits than 89,243

So, 471,678 is greater than 89,243

Compare 346,257 and 348,940

- 346,257 and 348,940 have the same number of digits, so :

First : Compare the hundred thousands digits →	**Second :** Compare the ten thousands digits →	**Third :** Compare the thousands digits
3 4 6, 2 5 7 3 4 8, 9 4 0	3 4 6, 2 5 7 3 4 8, 9 4 0	3 4 6, 2 5 7 3 4 8, 9 4 0
The digits are the same	The digits are the same	6 < 8

So, 346,257 smaller than 348,940

346,257 < 348,940

• Ordering numbers

- **Ascending order** is ordering numbers from the smallest to the greatest.

  For example :

  95,631 , 154,376 , 484,688 and 841,550 are arranged in an asending order.

- **Descending order** is ordering numbers from the greatest to the smallest.

  For example :

  703,544 , 614,580 , 609,214 and 351,677 are arranged in a desending order.

Check

1. Compare, write "> , = or <".

a. 99,564 ◯ 213,456 | **b.** 561,374 ◯ 552,987

c. 800,753 ◯ 708,079 | **d.** 267,314 ◯ 345,678

2. Arrange the following numbers in an ascending order.

745,319 | 953,442 | 467,890 | 754,319

The order is : _____ , _____ , _____ , _____

- Ask your child to tell you two numbers and compare between them.
- Help your child arrange big numbers ascendingly and descendingly.

Exercise 30

On Lesson 4

Comparing and ordering numbers of different forms

From the school book

1 Complete the following.

a. 3,509 = _____ (in expanded form)

b. Three hundred twenty-one thousand , nine hundred thirty-one in standard form is _____

c. The value of the digit 6 in the number 26,033 is _____ and its place value is _____

d. 6,000 + 50,000 + 40 + 300 + 2 = _____

e. 4,327 = _____ thousands + _____ hundreds + _____ tens + _____ ones

f. The place value of the digit 5 in the number 351,260 is _____

g. The place value of the digit 1 in the number 127,536 is _____ and its value is _____

2 Choose the correct answer.

a. The value of the digit 3 in the number 43,782 is _____

○ 30,000 ○ 300,000 ○ 3,000

b. 6,000 + 100,000 + 5 + 20 + 700 = _____

○ 16,725 ○ 106,725 ○ 61,527

c. The place value of the digit 8 in the number 582,014 is _____

○ Thousands ○ Ten thousands ○ Hundred thousands

d. Five hundred thirty-one thousand, seventy-four in standard form is _____

○ 531,740 ○ 53,174 ○ 531,074

e. 74, 215 > _____

○ 74,225 ○ 74,316 ○ 74,005

f. 352,948 < _____

○ 350,949 ○ 352,950 ○ 352,850

g. The place value of the digit 2 in the number 32,615 is _____

○ Hundred thousands ○ Ten thousands ○ Thousands

3 Complete the following.

a. 30,000 = _____ thousands

b. 200 hundreds = _____ thousands.

c. 4,000 = _____ thousands

d. _____ tens = 600

e. _____ = 200 thousands

f. 1 hundred thousand = _____ ten thousands

4 Put > , < or =.

a. 7 thousands ◯ 700 thousands

b. 79,284 ◯ 79,282

c. 14,120 ◯ 14,210

d. 120,000 ◯ 1,200 hundreds

e. 582,006 ◯ 581,006

f. 401,603 ◯ Forty-one thousand , six hundred three

g. 9,999 ◯ 10 thousands

h. 371,502 ◯ 39,813

i. 35 + 500 + 3,000 ◯ 535 + 3,000

j. 80,000 + 7,000 + 123 ◯ 7,000 + 800,000 + 123

5 Arrange the following numbers in an ascending order.

a. 5,021 | 5,201 | 5,102 | 5,210

The order is : _____ , _____ , _____ , _____

b. 55,318 | 505,720 | 5,099 | 550,941 | 55,418

The order is : _____ , _____ , _____ , _____ , _____

6 Arrange the following numbers in a descending order.

a. 3,109 | 499 | 30,199 | 4,099 | 409,009

The order is : _____ , _____ , _____ , _____ , _____

b. 248,672 | 15,368 | 9,725 | 248,671 | 15,378

The order is : _____ , _____ , _____ , _____ , _____

7 **Find the mistake in each of the following. Correct the mistake.**

Answers may vary

a. The value of the digit 7 in the number 74,123 is 700,000

_____

_____

b. The expanded form of the number 835,469 is 8 + 30 + 500 + 4,000 + 60,000 + 900,000

_____

_____

c. The word form of the number 58,072 is fifty-eight thousand , seven hundred two.

_____

_____

d. The place value of the digit 5 in the number 561,248 is ten thousands.

_____

_____

e. 300 thousands = 3,000 tens

_____

_____

f. 91,000 + 234 > 91,235

_____

_____

g. 13,470 < 13,407

_____

_____

h. 800 hundreds = 8 thousands

_____

_____

i. The numbers :

5,101 - 10,050 - 510,001 - 501,001 - 50,011 are arranged in an ascending order.

_____

_____

Challenge

8 Complete the missing digits in the two numbers 324, □65 and 19□ ,654

Such that the two missing digits have the same value.

Place a smiley face

Lesson 5

Addition strategies

Learn

Add 324 + 167

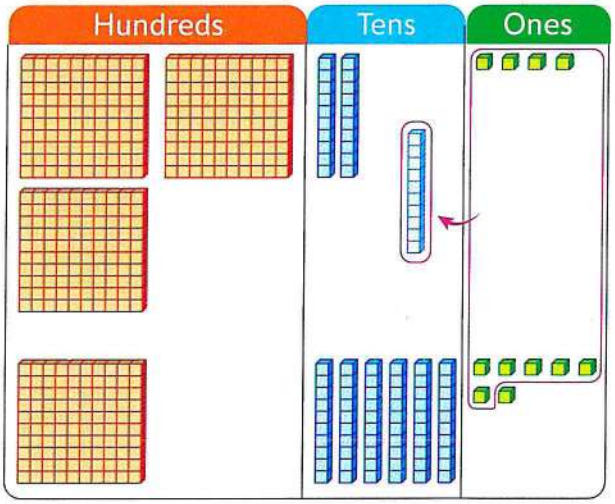
Here are some strategies that help you to add.

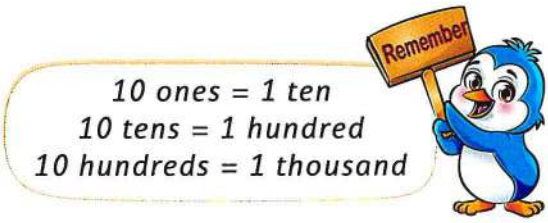
First strategy

Adding using place value blocks.

- Show each number with place value blocks.
- Combine the ones
  4 ones + 7 ones = 11 ones = 11
- Combine the tens
  2 tens + 6 tens = 8 tens = 80
- Combine the hundreds
  3 hundreds + 1 hundred = 4 hundreds = 400
- Add each value to find the sum.

400 + 80 + 11 = 491





Second strategy

Decomposing numbers.

- Decomposing each number writing the values of each digit.
- Add the values of ones , tens and hundreds.
- Add the total values

400 + 80 + 11 = 491

324 → 300 + 20 + 4
+167 → + 100 + 60 + 7
400 + 80 + 11

Notes for parents

- Help your child recognize the two strategies and ask him/her to find the sum of 253 and 419 using strategies.

Third strategy

Number line hops.

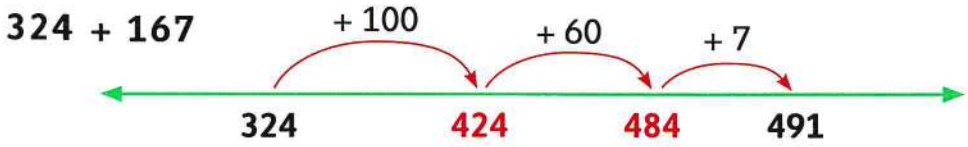
- Decompose the smeller number which is 167.
- The first hop in the number line is adding hundreds.
- The second hop in the number line is adding tens.
- The third hop in the number line is adding ones.

167 → 100 + 60 + 7

324 + 100 = 424

424 + 60 = 484

484 + 7 = 491



Fourth strategy

Adding with regrouping

- Start by adding the ones moving to the left.

This shows that we regrouped 10 ones as 1 ten

```
   1
 3 2 4
+ 1 6 7
-------
 4 9 1
```

Check

Use one of the previous strategies to show how to find the sum of 416 and 258.

_____

_____

_____

_____

Notes for parents

- Help your child understand all strategies and ask him/her to find the sum of 508 and 192.

Exercise
31
On Lesson 5

Addition strategies

From the school book

1 Use decomposing numbers strategy to add each of the following.

Problem	Work area	The sum
a. 328 + 461	____ + ____ + ____ ____ + ____ + ____ ____ + ____ + ____	____
b. 142 + 325	____ + ____ + ____ ____ + ____ + ____ ____ + ____ + ____	____
c. 615 + 324	____ + ____ + ____ ____ + ____ + ____ ____ + ____ + ____	____
d. 483 + 201		
e. 823 + 262		
f. 3,125 + 4,519		
g. 7,210 + 2,325		

2 Use the number line to add each of the following.

Problem	Work area	The sum
a. 243 + 532	+ ____ + ____ + ____ 532 ____ ____ ____	____
b. 257 + 354	+ ____ + ____ + ____ 354 ____ ____ ____	____
c. 348 + 532	+ ____ + ____ + ____ 532 ____ ____ ____	____
d. 677 + 233		
e. 865 + 337		
f. 2,013 + 278		
g. 4,156 + 1,243		

3 **Add.**

a. 437 + 318 = ____

b. 532 + 218 = ____

c. 629 + 317 = ____

d. 757 + 156 = ____

e. 160 + 485 = ____

f. 678 + 228 = ____

g. 145 + 56 = ____

h. 625 + 91 = ____

i. 3,236 + 4,285 = ____

j. 5,290 + 333 = ____

k. 6,706 + 2,186 = ____

l. 7,104 + 609 = ____

m. 427 + 348 = ____

n. 229 + 562 = ____

o. 75 + 25 = ____

p. 347 + 295 = ____

q. 7,217 + 1,664 = ____

r. 3,479 + 2,373 = ____

s. 2,076 + 4,124 = ____

t. 8,507 + 3,086 = ____

u. 653 + 39 = ____

v. 5,237 + 486 = ____

4 Solve the following problems using two different strategies.

Problem	First strategy	Second strategy
a. 127 + 426		
b. 355 + 25		
c. 429 + 152		

5 Solve the following problems.

Hint : *Add the first and the second numbers together, then add the sum to the third number.*

a. (142 + 297) + 116

= (_____) + 116 = _____

b. 316 + 12 + 149

_____

_____

c. 98 + 312 + 175

_____

_____

Hint : *Add the first and the second numbers, add the third and the fourth numbers, then add the two sums together.*

d. (137 + 201) + (119 + 235)

= (_____) + (_____)

= _____

e. 411 + 98 + 312 + 175

_____

_____

f. 156 + 252 + 309 + 213

_____

_____

Place a smiley face

Lesson 6

Subtraction strategies

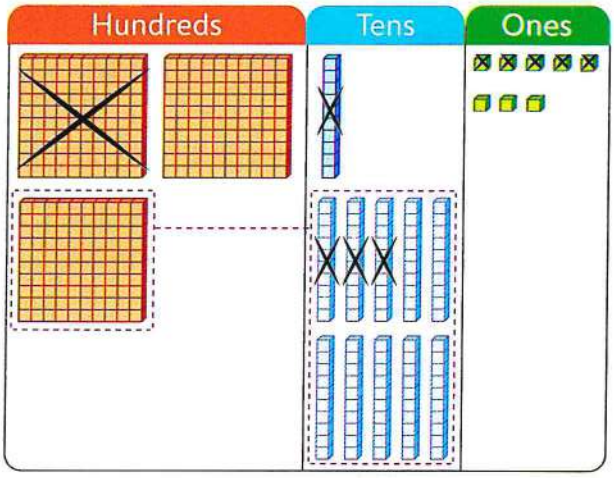
Learn

Subtract 318 – 145

Here are some strategies that help you to subtract.

First strategy

Place value blocks.



- Show the greater number with place value blocks.
- Subtract the ones
  8 ones – 5 ones = 3 ones = 3
- Subtract the tens
  Since there are not enough tens to subtract, decompose 1 hundred as 10 tens.
  11 tens – 4 tens = 7 tens = 70
- Subtract the hundreds. 2 hundreds – 1 hundred = 1 hundred = 100
- Add the values to find the difference **100 + 70 + 3 = 173**

Second strategy

Number line hops.

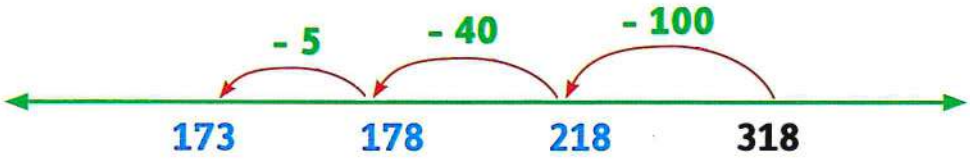
- Decompose the smaller number
- The first hop in the number line is subtracting hundreds
- The second hop in the number line is subtracting tens.
- The third hop in the number line is subtracting ones.

145 = 100 + 40 + 5

318 – 100 = 218

218 – 40 = 178

178 – 5 = 173



Notes for parents

• Help your child recognize different subtraction strategies to solve problems.

Third strategy

Subtracting with regrouping

- Start by subtracting the ones moving to the left.

$$\begin{array}{r} 2\ 11 \\ \cancel{3}\cancel{1}8 \\ -\ 145 \\ \hline 173 \end{array}$$

Check — Using fact family

- Add the difference to the subtrahend
  If you get minuend, then your check
  and your answer is correct

Since, 318 − 145 = 173

minuend | subtrahend | difference

Then : 173 + 145 = 318

So, 173 is the correct answer.

These strategies can be used in subtraction of 3-digit number and more or less digits.

Fact family

318 − 145 = 173

318 − 173 = 145

173 + 145 = 318

145 + 173 = 318

Check

Use any strategy to find the difference of 365 - 280.

Check your answer using fact families.

_____

_____

Notes for parents

- Ask your child to find the difference of 535 – 280 using different strategies.

Exercise 32

On Lesson 6

Subtraction strategies

From the school book

1 Use the number line to subtract each of the following.

Work area

a.

$$\begin{array}{r} 825 \\ -\ 210 \\ \hline \end{array}$$

Work area

b.

$$\begin{array}{r} 560 \\ -\ 350 \\ \hline \end{array}$$

Work area

c.

$$\begin{array}{r} 538 \\ -\ 235 \\ \hline \end{array}$$

Work area

d.

$$\begin{array}{r} 630 \\ -\ 125 \\ \hline \end{array}$$

Work area

e.

$$\begin{array}{r} 8,820 \\ -\ 623 \\ \hline \end{array}$$

Work area

f.

$$\begin{array}{r} 7,652 \\ -\ 4,071 \\ \hline \end{array}$$

2 Subtract.

a. 591 − 342 = _____

b. 436 − 129 = _____

c. 630 − 215 = _____

d. 442 − 324 = _____

e. 156 − 28 = _____

f. 309 − 41 = _____

g. 239 − 159 = _____

h. 670 − 237 = _____

i. 7,264 − 5,158 = _____

j. 6,418 − 4,238 = _____

k. 7,657 − 6,238 = _____

l. 8,712 − 420 = _____

m. 383 − 124 = _____

n. 626 − 108 = _____

o. 780 − 450 = _____

p. 925 − 610 = _____

q. 5,548 − 3,315 = _____

r. 1,759 − 1,255 = _____

s. 2,550 − 1,225 = _____

t. 8,742 − 351 = _____

u. 6,472 − 3,091 = _____

v. 8,067 − 2,574 = _____

3 Solve the following subtraction problems using two different strategies.

Problem	First strategy	Second strategy
a. 651 – 123		
b. 735 – 206		
c. 127 – 35		
d. 4,219 – 1,777		

4 Solve each subtraction problem using any strategy you choose. Use fact families to check your answer.

Problem	Work area	Check your answer
a. 684 – 232		
b. 790 – 50		
c. 855 – 105		
d. 3,489 – 1,263		

Place a smiley face

Lesson 7

Applications on addition and subtraction

Learn

- Look for
- Decide
- Solve

Youssef has 237 blocks, Maged has 148 blocks.

How many blocks do they have all together ?

Look for keyword to solve.

All together

Decide if you add or subtract.

Add Subtract

Solve the problem.

1

The number of all blocks = 237 + 148

= 385 blocks.

Hint :

Some keywords of addition :

- total
- all together
- sum
- in all
- and
- add
- join

- Look for
- Decide
- Solve

The school library had 3,640 books for borrowing.

During one week 1,280 of them were borrowed.

How many books were left ?

Look for keyword to solve.

Left

Decide if you add or subtract.

Add Subtract

Solve the problem.

5 14

The left books = 3,~~6~~~~4~~0 − 1,280

= 2,360 books.

Hint :

Some keywords of subtraction :

- left
- how many more?
- how many less?
- take away
- remain
- difference
- subtract

Notes for parents

- Ask your child to solve word problems using other strategies he/she has learned such as place value blocks, number line hops or adding/subtracting with regrouping.

Exercise
33
On Lesson 7

Applications on addition and subtraction

From the school book

Read each story problem and decide on a strategy to solve it show your work of each problem. Some problems might have more than one step to be solved. Read carefully.

a. Amr saved 365 pounds in one year. The next year he saved 475 pounds.
What is the total amount he saved ?

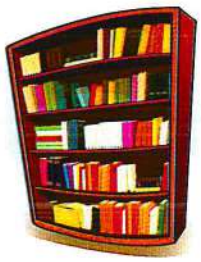
b. There are 365 days in one year. If 147 days have passed since the beginning of the year. **How many days are left in the year ?**

c. The school arranged a trip to pyramids. 1,355 students from primary stage and 1,420 from preparatory and secondary stages are going.
How many students are going in all stages ?

d. Bassem's book has 370 pages. He has already read 139 pages.
How many pages does Bassem have left to read ?

e. Three boxes filled with marbles were just delivered to the factory.
If each box is filled with 435 marbles.
How many marbles were delivered in all ?

f. The library can hold 2,475 books, but 525 books are out on loan and 137 books are missing.
How many books are there in the library right now ?



g. Sami had 6,000 L.E. to spend. He bought a new mobile for 3,250 L.E. and a speaker for 675 L.E.
How much money does have left with him ?

h. Amir's family is saving to buy a new TV. The TV costs 4,590 L.E. on sale. They have saved 2,410 L.E. so far.
How much more money do they need before they can buy the TV ?

Place a smiley face

Lessons 8 & 9

• Capacity
• Reading capacity

Learn 1 Capacity

- Capacity is the amount of **liquid** a container can hold.
- Units of capacity are :

  a **liter** (**L**) used to measure large amounts and

  a **milliliter** (**mL**) used to measure small amounts.

Vocabulary

Liquid
is that can take the shape of its container.

For example :

This water bottle holds **1 liter**.

A dropper holds about **1 milliliter**.

- There are **1,000 milliliters** in **1 liter.**

1 liter (L) = 1,000 milliliters (mL)

So, 2 L = 2,000 mL , 3 L = 3,000 mL , ...

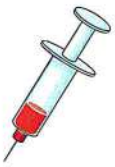
Check

Choose the unit you would use to measure the capacity of each.

○ L
○ mL

○ L
○ mL

○ L
○ mL



○ L
○ mL

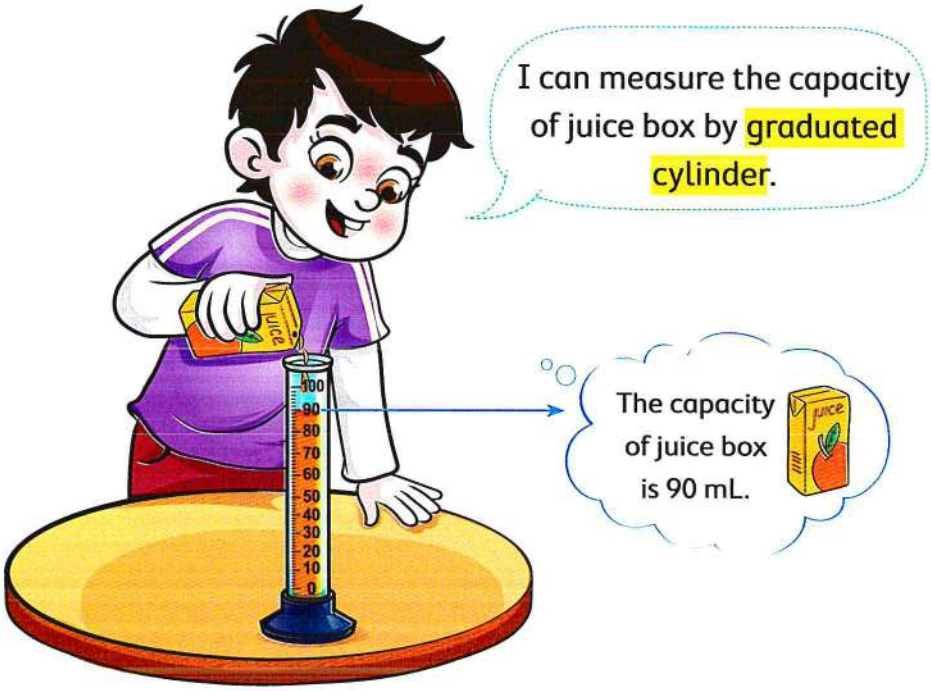
○ L
○ mL

○ L
○ mL

Notes for parents

- Let your child think about some containers at home, then determine 2 containers might hold more than 1 liter.

Learn 2 Reading capacity

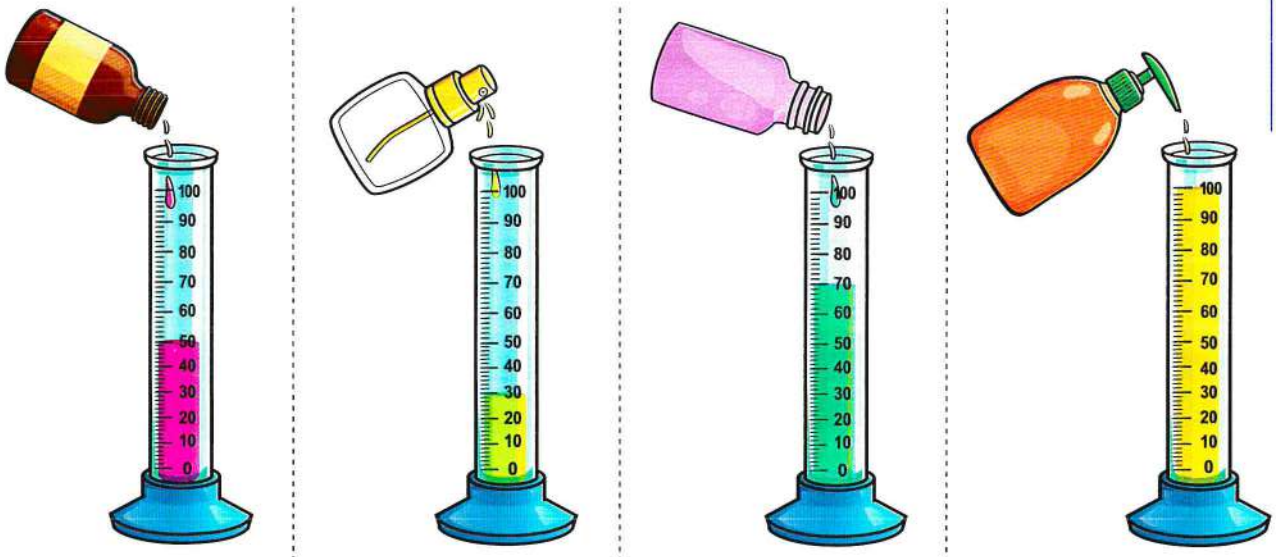


Vocabulary

Graduated cylinder is a graduated tool like ruler from 0 to 100 and the listed numbers are skip counted by 10's and it holds 100 mL

Check

Write the capacity for each of the following.



Capacity of
is _____ mL

Capacity of
is _____ mL

Capacity of
is _____ mL

Capacity of
is _____ mL

Notes for parents

- Let your child use a graduated cylinder to measure a small milk box.

Exercise
34
On Lessons 8 & 9

- **Capacity**
- **Reading capacity**

1 Choose the better estimation for each.

a. ◯ 1 mL ◯ 1 L	b. ◯ 300 mL ◯ 300 L	c. ◯ 10 mL ◯ 10 L
d. ◯ 40 mL ◯ 40 L	e. ◯ 2 mL ◯ 2 L	f. ◯ 500 mL ◯ 500 L
g. ◯ 200 mL ◯ 200 L	h. ◯ 3 mL ◯ 3 L	i. ◯ 350 mL ◯ 350 L
j. ◯ 2 mL ◯ 2 L	k. ◯ 10 mL ◯ 10 L	l. ◯ 50 mL ◯ 50 L

2 How many mL are there ?

a. _____

b. _____

c. _____

d. _____

e. _____

f. _____

3 Color to reach the given measures.

a. 30 mL

b. 80 mL

c. 50 mL

d. 100 mL

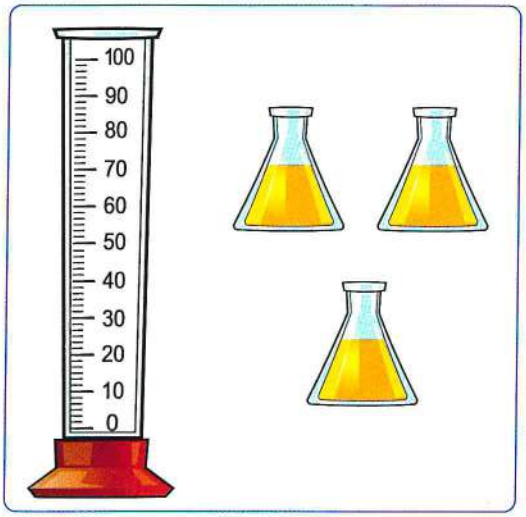
e. 10 mL

f. 70 mL

4 Color to reach the required measures.

= 20 mL

a.



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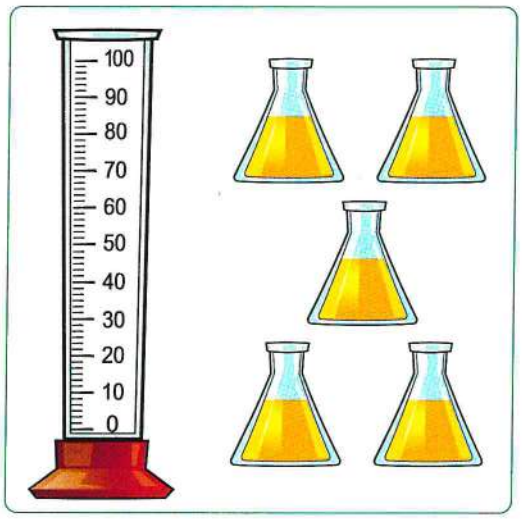
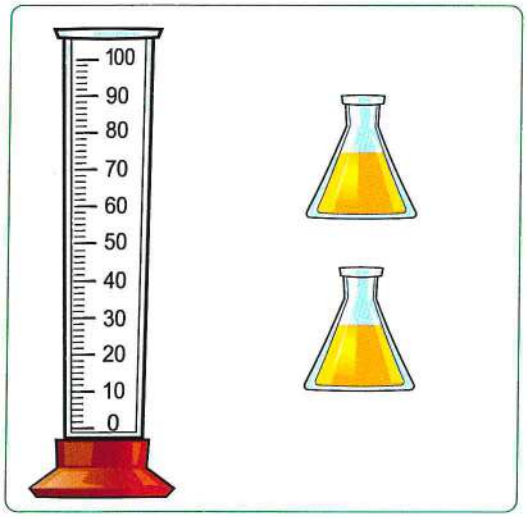
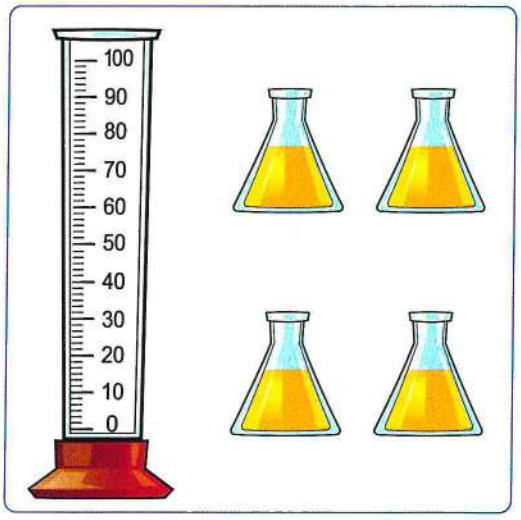


c.



d.



5 Complete the following.

a. 5 L = _____ mL

b. 9 L = _____ mL

c. 3,000 mL = _____ L

d. 4,000 mL = _____ L

e. 25 L = _____ mL

f. 37,000 mL = _____ L

g. 10 Liters = _____ milliliters

h. 7 Liters = _____ milliliters

i. 75,000 milliliters = _____ Liters

j. 1,000 milliliters = _____ Liter

6 Choose the correct answer.

a. 3 L = _____ mL (30 or 300 or 3,000)

b. 14 liters = _____ milliliters (140 or 14,000 or 1,400)

c. 10 L = _____ mL (1,000 or 100 or 10,000)

d. A perfume bottle is measured by _____ (mL or L)

e. Water in a bathtub is measured by _____ (mL or L)

f. The graduated cylinder is a tool for measuring _____

(capacity or tall or weight)

g. The capacity of a soda can could be _____ (330 L or 330 mL)

h. 2,000 mL = _____ L (200 or 2 or 20)

i. 70,000 mL = _____ L (700 or 7 or 70)

j. The liter is a unit used to measure _____

(tall or temperature or capacity)

k. Milk in a bottle is measured by _____ (L or mL)

l. 3 L + 2 L = _____ mL (5 or 500 or 5,000)

m. 5,000 mL − 2,000 mL = _____ L (2 or 3 or 4)

n. 2 L + 1,000 mL = _____ L (2 or 3 or 4)

o. Petrol in a car is measured by _____ (mL or L)

p. Soda in a can is measured by _____ (mL or L)

Challenge

7 Sameh drank 1,300 mL of water.

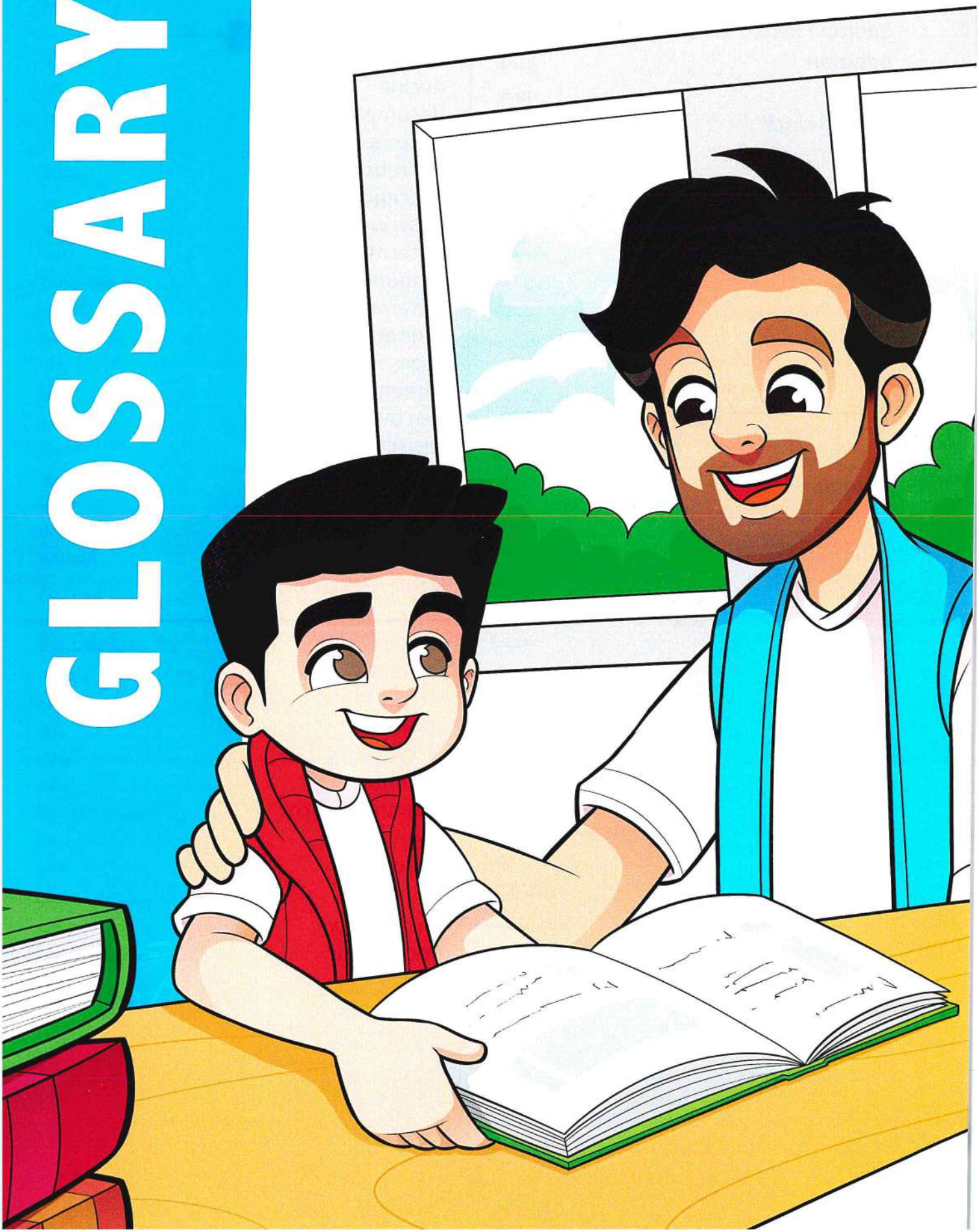
How much more or less than 1 L did he drink ?

_____

_____

Place a smiley face

GLOSSARY



A

accepted	مقبول
accumulative	تراكمى
actual	فِعلى
addition facts	حقائق الجمع
addition	الجمع
add	يجمع
analog clock	ساعة ذات عقارب
answer	يجيب / إجابة
area	مساحة
arrange	يرتب
array	مصفوفة
ascending	تصاعدى
assessment	تقييم
attribute	خاصية
axis	محور

B

bar graph	التمثيل البيانى بالأعمدة
belong	ينتمى
between	بين
big	كبير
break apart	يقسّم

C

capacity	السعة
centimeter	سنتيمتر
challenge	تحدى
chart	مخطط
check	يتحقق
choose	يختار
circle	دائرة / يضع دائرة حول
clock	منبه
closed figure	شكل مغلق
color	بلوّن / لون
column	عمود
common	مشترك
commutative	إبدال
compare	يقارن
comparing	مقارنة
complete	يكمل
correct	صحيح
count	يعد
create	ينشئ

D

data	بيانات
decide	يقرر
decompose	يحلل
decomposing	التحليل
decrease	ينقص
descending	تنازلى
describe	يوصف
determine	يحدد
diagonal pattern	النمط القطرى
different	مختلف
digital clock	ساعة رقمية
digit	رقم
dimension	بُعد
discover	يكتشف
distance	مسافة
distributive	توزيع
divide	يقسّم
division	القسمة
doubling	مضاعفة
draw	يرسم

E

elapsed time	الوقت المنقضى
element	عنصر
equal to	مساوٍ لـ
estimate	يقدّر
estimating	تقدير
estimation	تقدير
expanded form	الصيغة الممتدة
explain	يفسر
extend	يمتد

F

fact family	حقائق رياضية
factor pair	زوج من العوامل
factor	عامل
fair share	نصيب عادل
favorite	مفضل
fewest	الأقل
fill in	يملأ

finding	إيجاد
find	يوجد
finger	إصبع
first	أولًا
frequency	التكرار

G

greater than	أكبر من
greatest	الأكبر
grid	شبكة
group	مجموعة

H

half	نصف
happen	يحدث
hexagon	سداسى الأضلاع
hint	تنويه
hop	قفز
horizontal	أفقى
hour hand	عقرب الساعات
hour	ساعة
hundred thousand	مائة ألف

I

incorrect	خطأ
increase	يزيد
intersect	يتقاطع

J

join	ينضم / يوصل

K

key	مفتاح

L

land on	يستقر
least	الأصغر
left	باقى / شمال
length	طول
less than	أقل من
line plots	مخطط التمثيل بالنقاط
linear measurement	قياس خطى
list	قائمة
liter	لتر
longest	الأطول
long	طويل

M

match	يوصل
mean	يعنى
measure	يقيس
measuring	قياس
meter	متر
milliliter	ملليلتر
millimeter	ملليمتر
minute hand	عقرب الدقائق
minute	دقيقة
missing	مفقود / ناقص
mistake	خطأ
model	نموذج
most	الأكثر
multiple	مضروب
multiplication facts	حقائق الضرب
multiplication	الضرب
multiply	يضرب

N

next	تالى
number line	خط الأعداد
number pattern	نمط الأعداد
number	عدد

O

object	شيء
octagon	ثمانى الأضلاع
open figure	شكل مفتوح
order	يرتب / ترتيب
organize	ينظم
organizing	تنظيم

P

palm	كف اليد
parallelogram	متوازى الأضلاع
parallel	موازى
pattern	نمط
pentagon	خماسى الأضلاع
perimeter	محيط
pictograph	التمثيل البيانى بالصور
place value	القيمة المكانية
polygon	مضلع
previous	السابق
problem	مسألة
product	حاصل الضرب
put	يضع

stand for	يشير إلى
standard form	الصيغة الرمزية
standard unit	العلامة المرجعية
statement	عبارة
story problem	مسألة كلامية
strategy	استراتيجية
subtraction	الطرح
subtract	يطرح
suitable	مناسب
sum	مجموع
symbol	رمز

T

table	جدول
tally marks	علامات الإحصاء (العلامات التكرارية)
tell	يخبر
ten thousand	عشرة آلاف
thousand	ألف
tick	يضع علامة
time	الوقت
tip	تلميح
total	مجموع
trapezium	شبه المنحرف
triangle	مثلث
trick	خدعة

U

unit	وحدة

V

value	قيمة
venn diagram	شكل ڤن
vertex	رأس
vertical	رأسى
vertices	رؤوس
visual	بصرى
vote	رأى

W

way	طريقة / أسلوب
whether	إذا كان
width	عرض
word form	الصيغة الكلامية

Q

quadrilateral	رباعى الأضلاع
quarter past	وربع
quarter to	إلا ربع
quotient	خارج القسمة

R

rearrange	يعيد الترتيب
record	يسجل
rectangle	مستطيل
regrouping	إعادة التجميع
relation	علاقة
repeated addition	الجمع المتكرر
required	مطلوب
result	نتيجة
review	يراجع / مراجعة
rhombus	معيّن
right	يمين
ring	يحوط
row	صف
ruler	مسطرة
rule	قاعدة

S

same	نفس الشىء
scale	مقياس
sentence	جملة
set	مجموعة
shape	شكل
shortest	الأقصر
short	قصير
show	يعرض
side	جانب / ضلع
similar	متشابه
situation	موقف
skip counting	العد بالقفز
small	صغير
solve	يحل
sort	يصنف
split	يقسّم / يشطر
square unit	وحدة مربعة
square	مربع

EL-MOASSER

2026

Mathematics

By a group of supervisors

STEP BY STEP REVISION

FREE PART 1

- Worksheets
- General Revision
- Final Assessments

FIRST TERM

3rd PRIMARY

First Worksheets

Sheet 1

On lesson 1 - chapter 1

1 Circle the correct rule.

a. 75 , 65 , 55 , 45 , _____ | − 5 | − 10 | + 5 | + 10 |

b. 68 , 84 , 100 , 116 , _____ | − 14 | + 14 | − 16 | + 16 |

c. 200 , 175 , 150 , 125 , _____ | + 25 | − 25 | − 20 | + 20 |

2 Discover the pattern rule. Write the missing numbers.

	Rule
a. 41 , 44 , 47 , 50 , _____ , _____	_____
b. 80 , 70 , 60 , 50 , _____ , _____	_____
c. 115 , 120 , 125 , 130 , _____ , _____	_____

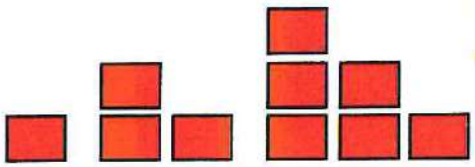
3 Draw the pattern unit.

a.

b. 7 8 7 8 7 8

c.

d.

e. 

f.

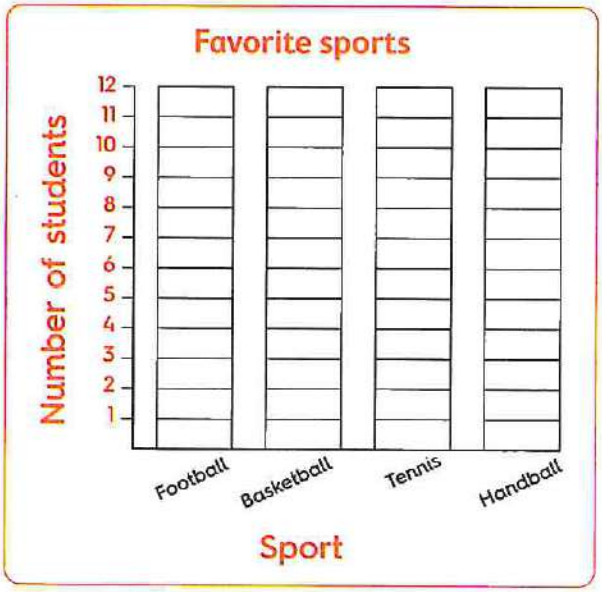
Sheet 2

Till lesson 2 - chapter 1

1 **Complete the tally table, then use it to make a bar graph.**

Favorite sports

Sport	Tally	Number of students
Football	𝍸 𝍸 ||	_____
Basketball	𝍸 ||	_____
Tennis	𝍸	_____
Handball	𝍸 |||	_____



Answer the questions.

a. How many students liked basketball ? _____

b. Which sport got the most votes ? _____

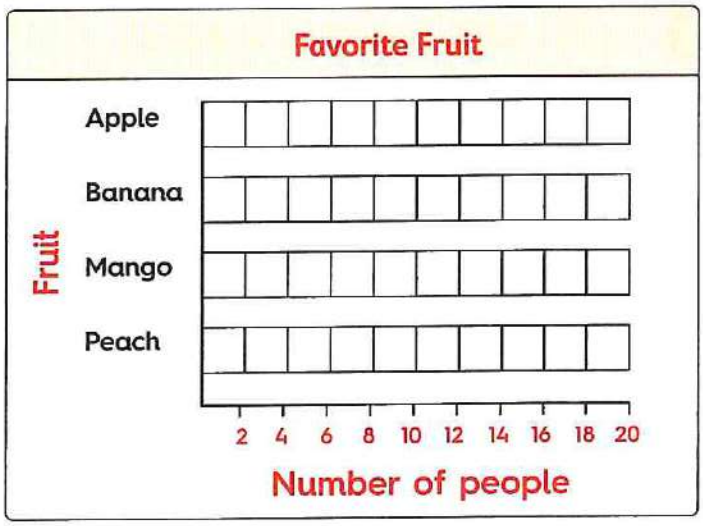
c. Which sport got the fewest votes ? _____

2 **Discover the pattern rule. Write the missing numbers.**

	Rule
a. 20 , 22 , 24 , _____ , _____	_____
b. 30 , 25 , 20 , _____ , _____	_____
c. 7 , 14 , 21 , _____ , _____	_____
d. 3 , 13 , 23 , _____ , _____	_____
e. 123 , 234 , 345 , _____ , _____	_____
f. 900 , 700 , 500 , _____ , _____	_____

3 **Convert the same information from the tally table into a bar graph.**

Favorite Fruit	
Type	**Tally**
Apple	𝍸 𝍸 ||
Banana	𝍸 𝍸
Mango	𝍸 𝍸 ||||
Peach	𝍸 |||



a. How many people liked banana best ? _____

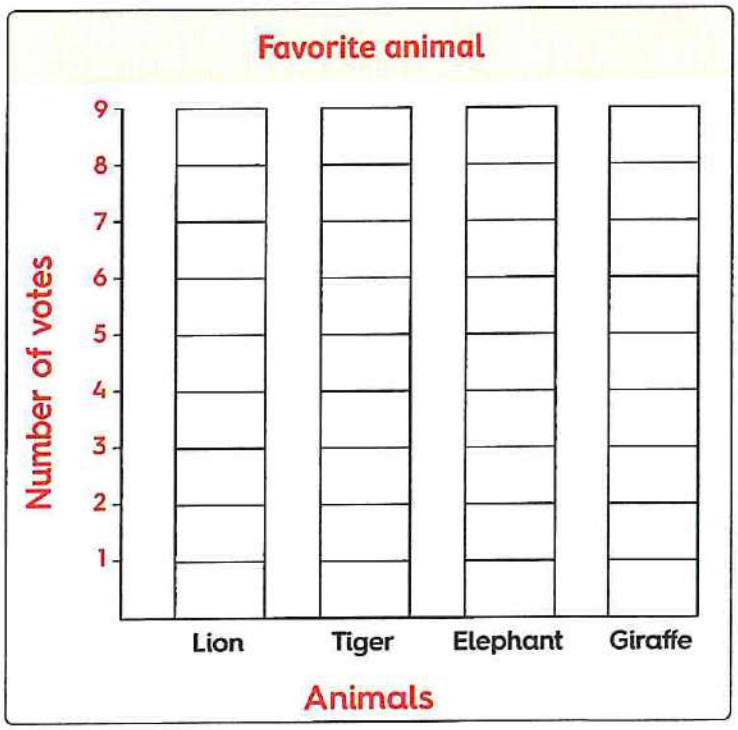
b. How many people liked apple and mango ? _____

---

4 **This is a survey about our favorite animal in the zoo.**
Make a tally table and then use it to make a bar graph and answer the following questions.

Lion	Tiger	Elephant
Giraffe	Lion	Giraffe
Elephant	Tiger	Tiger
Giraffe	Lion	Giraffe

Favorite animal		
Kind	**Tally**	**Number**
Lion		_____
Tiger		_____
Elephant		_____
Giraffe		_____



a. Which animal is favored by the most ? _____

b. Which two animals have the same votes ? _____ , _____

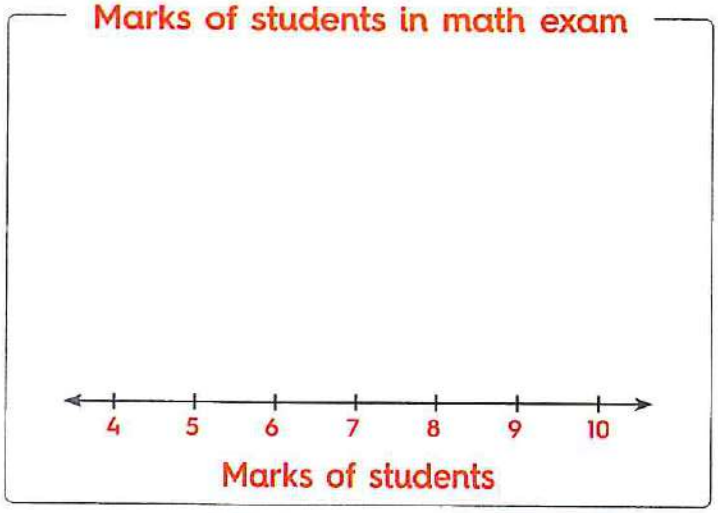
c. How many persons voted for elephant ? _____

d. How many more persons voted for lion than elephant ? _____

Sheet 3

Till lesson 3 - chapter 1

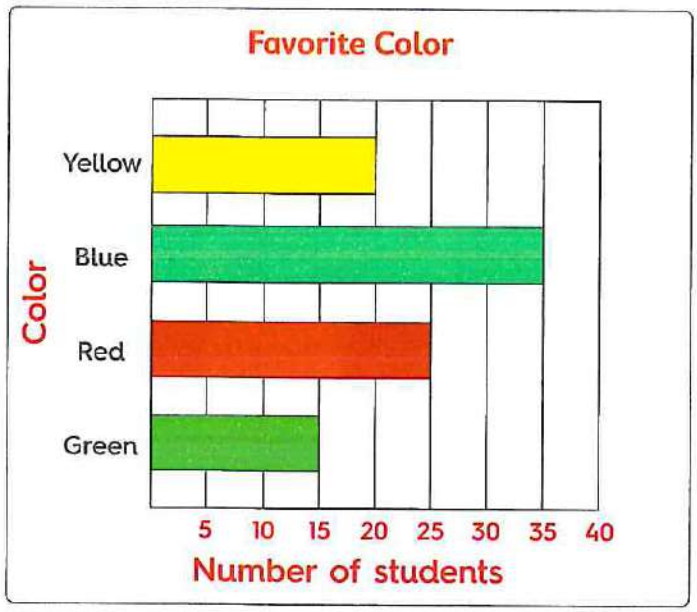
1 Use the table to draw a line plot.



Marks of students	
Marks	Tally
4	||
5	~~||||~~ |
6	~~||||~~ |||
7	~~||||~~ ||||
8	~~||||~~ ~~||||~~ ||
9	~~||||~~ ||
10	|||

Key Each X = _____ students.

2 Use the bar graph to complete the tally table then, answer the following questions.



Favorite Color	
Color	Tally
Yellow	
Blue	
Red	
Green	

a. How many students liked red color ? _____

b. Which color is liked the least ? _____

c. Which color is liked the most ? _____

d. How many students liked red color and green color ? _____

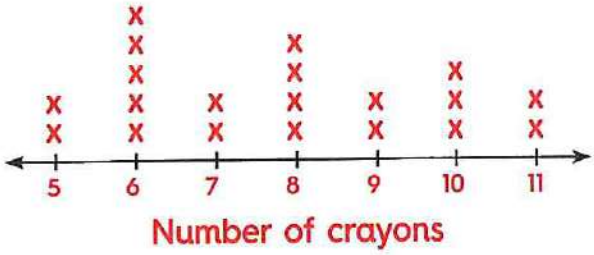
3 Use the line plot to answer the questions.

a. How many children have 8 crayons ? _____

b. How many children have 6 crayons ? _____

c. How many children have more than 9 crayons ? _____

d. How many children have less than 7 crayons ? _____



Key Each X = 1 child

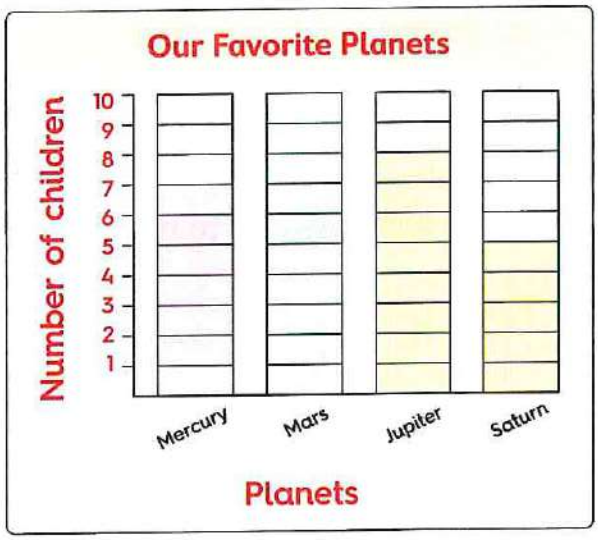
4 Use the bar graph to answer the questions.

a. How many children choose Mars ? _____

b. Which planet did the fewest children choose ? _____

c. How many children choose Mercury ? _____

d. How many more votes did the Jupiter get than the Saturn ? _____



5 Find the rule. Extend the pattern.

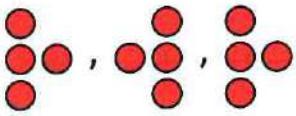
a. 40 , 37 , 34 , _____ , _____

b. 6 , 12 , 18 , _____ , _____

c. 9 , 19 , 29 , _____ , _____

d. 4 , 9 , 7 , 12 , _____ , _____

e. ▲ , ■ , ● , ▲ , _____ , _____

f.  , _____ , _____

g. , _____ , _____

Sheet 4

Till lessons 4 to 6 - chapter 1

1 Use a ruler to measure the length of each of the following.

a.

_____ centimeters, _____ mm

b.

_____ centimeters

c.

_____ cm

d.

_____ mm

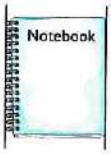
e.

_____ cm, _____ mm

2 Choose the correct answer.

a. 30 mm = _____ cm (3 or 10 or 30 or 300)

b. 20 cm = _____ mm (2 or 10 or 20 or 200)

c. The suitable unit to measure 

is _____ (cm or m or mm)

d. The suitable unit to measure is _____ (m or cm or mm)

e. 9 mm ◯ 9 m (< or = or >)

3 Complete the tally table and the line plot.

Length of hand		
Length	Tally	Number
11 cm	𝍸 ||	_____
12 cm	𝍸 |	_____
13 cm	𝍸 |||	_____
14 cm	𝍸	_____
15 cm	|||	_____

Length of hand

Key Each X = 1 child

Assessment Chapter 1

1 Complete.

a. 5 cm = _____ mm

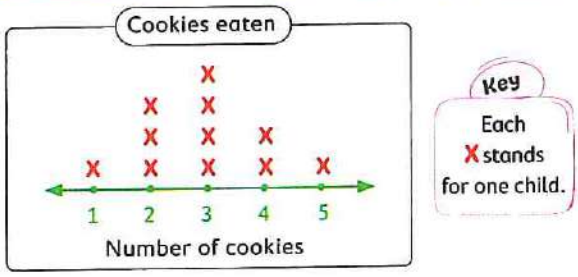
b. 250 cm = _____ m and _____ cm

c. The length of the object = _____ cm

d. 49 , 48 , 47 , 46 , _____ , _____ (in the same pattern)

2 Choose the correct answer.

a. By using the opposite line plot.
How many children ate 2 cookies ?
(1 or 2 or 3 or 4)



b. 18 , 23 , 28 , 33 , _____ (in the same pattern) (38 or 43 or 37 or 33)

c. 20 mm = _____ cm (20 or 2 or 200 or 22)

d. The length of the object = _____ mm (1 or 5 or 2 or 10)

3 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. 5 m and 3 m = 8 cm ( )

b. 8 m = 800 cm ( )

c. The length of the object = 4 cm ( )

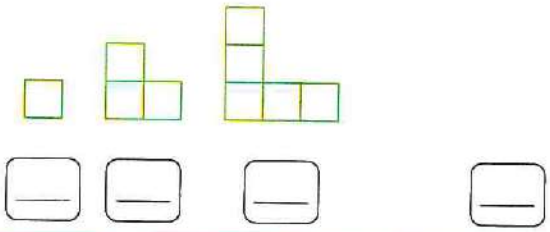
d. 30 , 32 , 34 , 36 , 39 , 40 are all in a correct same pattern. ( )

4 Arrange the following lengths in a descending order.

70 mm , 70 cm , 77 mm , 77 cm

The order is : _____ , _____ , _____ , _____

5 Draw what might come next in the pattern. Write the number of items in each step.



6 Complete using (< , = or >).

a. 7 m ☐ 7 cm

b. 4 m ☐ 40 cm

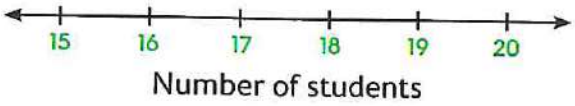
c. 20 mm ☐ 20 cm

d. 70 mm ☐ 9 cm

7 Use the table to draw a line plot.

Marks of students in an exam

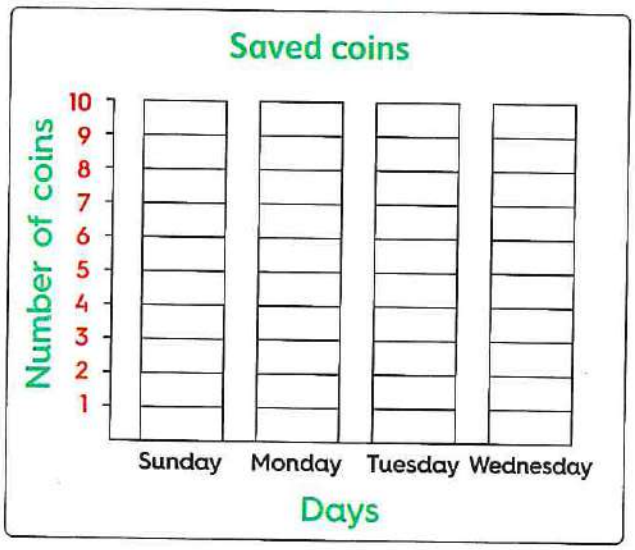
Key
Each x = ____ student.



Marks of students in an exam	
Marks	**Number of students**
15	2
16	1
17	3
18	5
19	4
20	2

8 Count the tallies. Write the total. Color the bar graph to show the data.

Saved coins		
Day	**Tally**	**Number**
Sunday	|||	____
Monday	~~||||~~	____
Tuesday	~~||||~~ |||	____
Wednesday	~~||||~~ |	____



Sheet 5

Till lessons 1 & 2 - chapter 2

1 **By using the following table complete.**

Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
9	2	1	4	5	8

a. Standard form : _____

b. Expanded form : _____

c. Word form : _____

2 **Write the following numbers in order from least to greatest.**

7,563 , 4,792 , 978 , 8,460

The order is : _____ , _____ , _____ , _____

3 **Write the greatest and the least 4-digit number formed from 3 , 9 , 0 and 7.**

a. The greatest number is _____

b. The least number is _____

4 **Choose the correct answer.**

a. 7,000 + 30 + 8 = _____ (in standard form)
(7,380 or 7,038 or 7,083 or 7,830)

b. The value of the digit 5 in the number 3,572 is _____
(5 or 50 or 500 or 5,000)

c. Three thousand, two hundred six in standard form is _____
(3,260 or 3,206 or 3,620 or 3,226)

d. The place value of the digit 2 in the number 2,751 is _____
(Ones or Tens or Hundreds or Thousands)

e. 300 tens = _____ hundreds. (3 or 30 or 300 or 3,000)

f. 30 mm = _____ cm (3 or 30 or 300 or 3,000)

g. 12 cm = _____ mm (12 or 120 or 1,200 or 12,000)

h. The tally marks 𝍸 represent _____ (5 or 6 or 7 or 8)

Sheet 6

Till lessons 3 & 4 - chapter 2

1 Choose the correct answer.

a. The place value of the digit 7 in the number 375,128 is _____
(Tens **or** Hundreds **or** Thousands **or** Ten thousands)

b. The value of the digit 0 in the number 130,452 is _____
(0 **or** 10 **or** 1,000 **or** 100,000)

c. The smallest number formed from 3 , 7 , 8 , 4 , 9 and 0 is _____
(37,849 **or** 307,489 **or** 304,789 **or** 987,430)

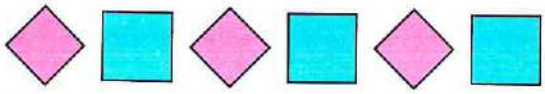
d. 700,000 + 50,000 + 900 + 6 = _____
(7,596 **or** 750,906 **or** 75,960 **or** 705,906)

e. 33 , 38 , 43 , _____ (in the same pattern) (44 **or** 45 **or** 48 **or** 50)

---

2 Complete.

a. 74,000 = _____ tens.

b.  _____ (in the same pattern)

c. Six hundred forty-two thousand, seven hundred thirteen = _____
(in standard form)

d. 97,350 = 90,000 + _____ + 300 + 50

---

3 Compare, write "> , < or =".

a. 79,562 ◯ 81,563

b. 17,000 ◯ 17 hundreds

c. 87,521 ◯ Nine hundred thousand

d. 30,000 + 4,000 + 50 ◯ 34,005

e. 30 cm ◯ 30 mm

f. 130 tens ◯ 13 hundreds

---

4 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. The place value of the digit 3 in the number 31, 654 is Hundred thousands. ( )

b. The place value of the digit 7 in the number 731, 265 is 700,000 ( )

c. The value of the digit 5 in the number 576,123 is 500,000 ( )

d. The value of the digit 0 in the number 720,315 is Thousands. ( )

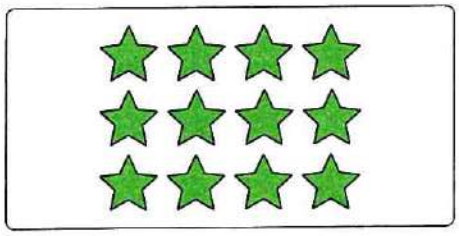
e. Nine hundred thousand, nine hundred = 900,900 ( )

Sheet 7

Till lesson 5 - chapter 2

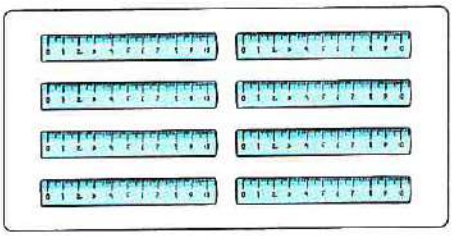
1 Look at each, complete.

a.



_____ equal rows
_____ in each row
_____ in all

b.



_____ equal rows
_____ in each row
_____ in all

2 Create an array.

a. 3 rows of 2

b. 2 rows of 3

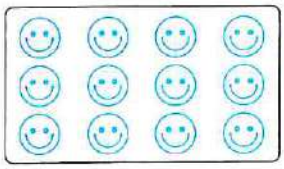
3 Choose the correct answer.

a. The place value of the digit 0 in the number 401,731 is _____
(Ones **or** Hundreds **or** Thousands **or** Ten thousands)

b. 198,521 ◯ 2 hundred thousands (> **or** < **or** =)

c. The greatest 6-digit number formed from 7, 8, 5, 4, 0 and 9 is _____
(405,789 **or** 540,789 **or** 987,450 **or** 987,540)

d. In the opposite array,the number of rows = _____
(3 **or** 4 **or** 12 **or** 15)



e. The value of the digit 8 in the number 841,003 is _____
(80 **or** 800 **or** 80,000 **or** 800,000)

4 Write in expanded form.

a. 314,052 = _____

b. 72 thousands = _____

c. 37,561 = _____

d. Fourteen thousand, thirty-one = _____

Sheet 8

Till lesson 6 - chapter 2

1 **Put (✓) to the correct statement or (✗) to the incorrect statement.**

a. $7 + 7 + 7 = 3 \times 7$ ( )

b. 5 groups of $2 = 5 \times 2$ ( )

c. 4 groups of $9 = 4 + 4 + 4 + 4$ ( )

d. $9 \times 2 = 9 + 9$ ( )

e. 6 equal groups of $8 = 6 + 8$ ( )

f. $6 \times 6 = 6 + 6 + 6 + 6$ ( )

2 **Build the array according to the following. Write the multiplication sentence.**

a. 3 rows of 4

____ × ____ = ____

b. 2 columns of 5

____ × ____ = ____

c. 6 rows of 3

____ × ____ = ____

3 **Join the place value of the digit 2 in each of the following.**

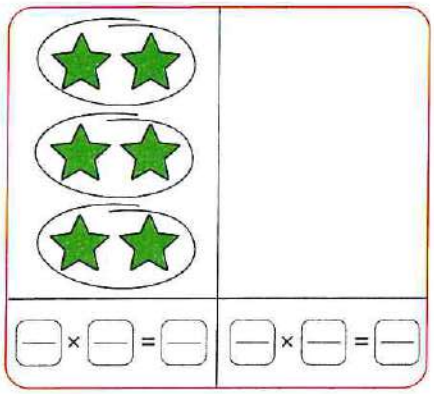
a.	725,463	Ones
b.	256,007	Tens
c.	154,672	Hundreds
d.	176,291	Thousands
e.	452,700	Ten thousands
f.	654,321	Hundred thousands

Sheet 9

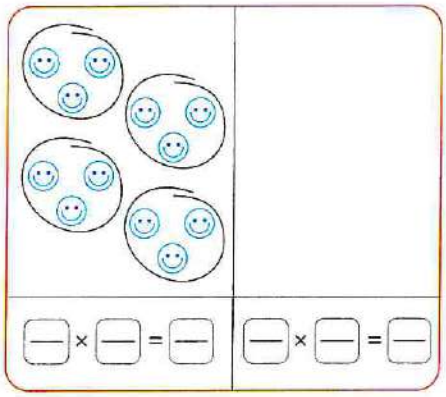
Till lesson 7 - chapter 2

1 **Write the multiplication sentence for each equal groups, then draw the equal groups that shows the commutative property.**

a.

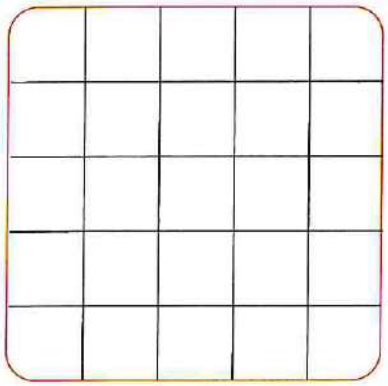


b.



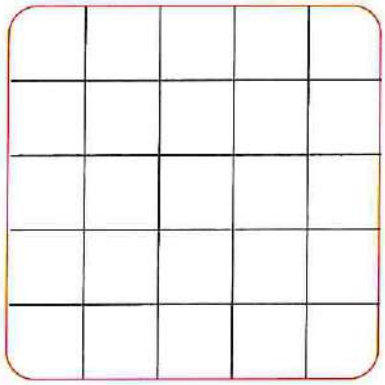
2 **Draw the array on the grid according to its multiplication sentence. Write the product.**

a.



4 × 3 = ____

b.



5 × 4 = ____

3 **Put (✓) to the correct statement or (✗) to the incorrect statement.**

a. 30,000 + 5,000 + 2 + 100 = 35,102 ( )

b. 17 hundreds = 1,700 ( )

c. The value of the digit 6 in the number 36,217 is Thousands. ( )

d. 11,111 is the smallest 5-digit number. ( )

e. 9,999 > 11,111 ( )

f. 3 m < 13 cm ( )

Assessment Chapter 2

1 Choose the correct answer.

a. The value of the digit 3 in 439,012 is _____ (300,000 or 30,000 or 3,000)

b. Two hundred fifty-eight thousand , seven hundred thirty-one in standard form is _____ (731,258 or 285,731 or 258,731)

c. 6,239 in expanded form is _____
(6,000 + 200 + 30 + 9 or 9,000 + 300 + 20 + 6 or 2,000 + 600 + 90 + 3)

d. 120 thousands ◯ 1,200 hundreds (> or < or =)

e. 451,679 ◯ 89,879 (> or < or =)

f. 3 × 5 = 5 × _____ (3 or 5 or 35)

2 Match.

a. 3 + 3 + 3 + 3 b. 5 × 4 c. 2 rows of 3 d. 5 columns of 3

5 + 5 + 5 + 5 3 × 5 2 × 3 4 + 4 + 4

3 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. 5 + 5 + 5 + 5 + 5 = 5 × 5 ( )

b. 8 + 4,000 + 60 + 100 = 8,461 ( )

c. The greatest number formed from 3 , 0 , 8 and 2 is 8,032 ( )

d. 5 × 7 = 7 + 5 ( )

4 Complete.

a. 9 + 9 + 9 = 9 × _____

b. _____ × 7 = 7 × 2

c. 50 thousands and 50 = _____

d. 3 rows of 6 = _____ × _____ = _____

e. 2 groups of 5 = _____ + _____

f. The value of the digit 0 in any number equals _____

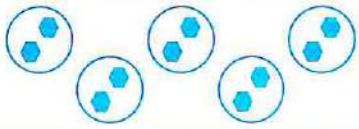
g.

_____ rows of _____

[ ] × [ ]

= [ ]

h.



_____ groups of _____

[ ] × [ ] = [ ]

5 a. **Arrange from the greatest to the least.**

100,369 , 812,926 , 99,512 , 766 , 812,437

The order is : _____ , _____ , _____ , _____ , _____

b. **Arrange from the least to the greatest.**

307,040 , 7,403 , 43,007 , 304,700

The order is : _____ , _____ , _____ , _____

6 **Compare using "> , < or =".**

a. 3,467 ◯ 3,164

b. 300 thousands ◯ 3,000 hundreds

c. 132,045 ◯ 93,245

d. 548,176 ◯ 548,173

e. One hundred thousand ◯ 99,999

f. 275 thousands and 6 ◯ 275,600

g. 25,600 tens ◯ 256 thousands

h. 381,205 ◯ 83 thousands and 205

Accumulative Assessment

Till chapter 2

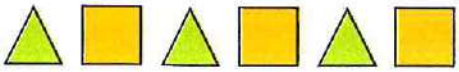
1 Complete.

a. 3 × 1 , 3 × 2 , 3 × 3 , 3 × 4 , _____ , _____ (in the same pattern)

b. 10 + 10 + 10 + 10 + 10 = _____ × 10

c. 5 thousands , 6 hundreds and 31 ones = _____

d. 15 m = _____ cm

e.  _____ (in the same pattern)

2 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. 50,000 + 300 + 5,000 + 6 = 55,360 ( )

b. 5 groups of 3 = 5 + 5 + 5 ( )

c. 1 cm = 100 mm ( )

d. 50 hundreds = 5 thousands ( )

e. The greatest 5-digit number is 99,990 ( )

3 Choose the correct answer.

a. The tally marks 𝍸 mean _____ (3 or 4 or 5)

b. 3 cm = _____ mm (3 or 30 or 300)

c. 5 × _____ = 9 × 5 (5 or 9 or 0)

d. 9 × 2 = 9 + _____ (2 or 11 or 9)

e. 95 , 85 , 75 , 65 , _____ (in the same pattern) (55 or 65 or 35)

f. The length of the figure = _____ mm

(6 or 60 or 600)

4 Match.

a. 2 cm

b. 2 m

c. 100 cm

d. 10 cm

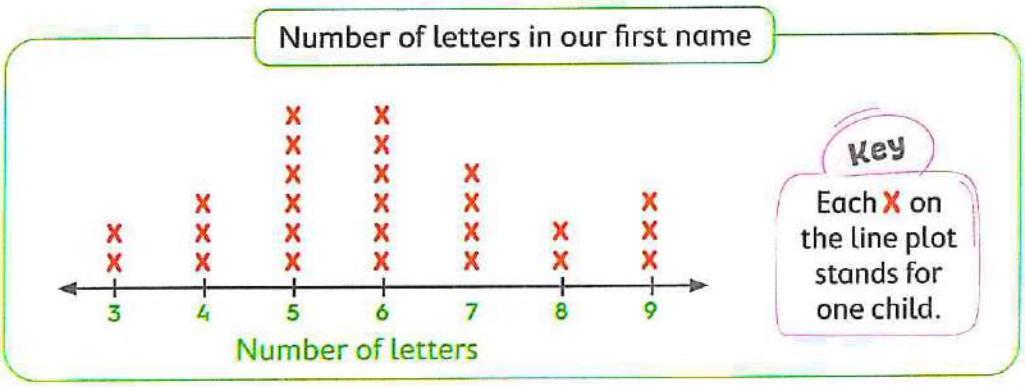
20 mm

1 m

100 mm

200 cm

5 **Use the line plot to answer the questions.**



a. How many children have 5 letters in their first name ? _____ children.

b. What is the smallest number of letters in a child's first name ? _____ letters.

c. What is the greatest number of letters in a child's first name ? _____ letters.

6 **Draw a model group. Then write an addition sentence and a multiplication sentence for 3 groups of 2.**

_____ _____

7 a. **Write the numbers in an ascending order.**

7,482	54,658	954,201	12,158

The order is : _____ , _____ , _____ , _____

b. **Write the numbers in a descending order.**

83,987	8,315	833,400	833,312

The order is : _____ , _____ , _____ , _____

Sheet 10

Till lessons 1 & 2 - chapter 3

1 Choose the correct answer.

a. 80 mm = _____ cm (8 or 80 or 800 or 8,000)

b. 370 thousands = _____ hundreds

(37 or 370 or 3,700 or 37,000)

c. The greatest number formed from 7, 8, 0, 2 and 5 is _____

(78,520 or 87,520 or 87,250 or 87,502)

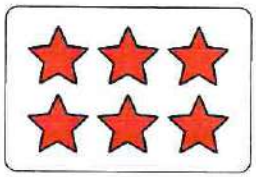
d. If a guitar has 6 strings, then there are _____ strings in 2 guitars.

(6 or 8 or 10 or 12)

2 Complete.

a. 94,562 = 90,000 + _____ + 500 + _____ + _____

b. The opposite array is _____ rows of _____



c. 6 × 5 = 5 × _____

d. If Ayman runs 2 hours every day, then the number of running hours in 5 days is _____ hours.

3 Read and solve. You may use counters to solve.

(a) Sara had a bag of peanuts to share with her friends . She gave 3 friends 4 peanuts each. How many peanuts did Sara give away ?

_____

(b) There are 7 mangoes in a box. How many mangoes are there in 3 boxes ?

_____

(c) A bag of balls holds 5 balls. How many balls are there in 3 bags ?

_____

Sheet 11

Till lesson 3 - chapter 3

1 **Use the chart. Find each product.**

a. $3 \times 4 =$ _____	b. $2 \times 6 =$ _____	c. $0 \times 9 =$ _____
d. $4 \times 6 =$ _____	e. $1 \times 8 =$ _____	f. $2 \times 5 =$ _____
g. $3 \times 6 =$ _____	h. $4 \times 8 =$ _____	i. $3 \times 8 =$ _____
j. $2 \times 4 =$ _____	k. $3 \times 9 =$ _____	l. $4 \times 4 =$ _____
m. $4 \times 5 =$ _____	n. $5 \times 0 =$ _____	o. $2 \times 7 =$ _____

2 **Choose the correct answer.**

a. _____ $\times 4 = 40$ (6 or 2 or 5 or 10)

b. _____ is a multiple of 2 and 3 together. (4 or 9 or 12 or 15)

c. The least number formed from the digits 7 , 6 , 0 , 4 , 8 and 2 is _____

(24,678 or 204,678 or 246,780 or 876,420)

d. The place value of the digit 4 in the number 124,023 is _____

(Tens or Hundreds or Thousands or Ten thousands)

e. _____ $\times 3 = 15$ (3 or 2 or 5 or 6)

3 **Use the chart.**

a. Write the multiples of 2 greater than 30 and smaller than 60

_____

b. Write the multiples of 3 greater than 30 and smaller than 60

_____

c. Write three common multiples of 2 and 3 greater than 30 and smaller than 60

_____

Sheet 12

Till lesson 4 A - chapter 3

1 Use the chart. Find each product.

a
- $6 \times 5 =$ _____
- $7 \times 4 =$ _____
- $6 \times 2 =$ _____
- $6 \times 6 =$ _____
- $7 \times 6 =$ _____
- $5 \times 7 =$ _____
- $7 \times 0 =$ _____
- $3 \times 9 =$ _____
- $2 \times 10 =$ _____

b
- $7 \times 3 =$ _____
- $5 \times 9 =$ _____
- $7 \times 7 =$ _____
- $5 \times 6 =$ _____
- $5 \times 5 =$ _____
- $6 \times 8 =$ _____
- $3 \times 5 =$ _____
- $5 \times 4 =$ _____
- $7 \times 9 =$ _____

c
- $6 \times 4 =$ _____
- $6 \times 10 =$ _____
- $1 \times 3 =$ _____
- $7 \times 5 =$ _____
- $6 \times 3 =$ _____
- $7 \times 8 =$ _____
- $0 \times 8 =$ _____
- $6 \times 9 =$ _____
- $5 \times 8 =$ _____

2 Compare using "> , < or =".

a. 75,865 ◯ 101,213

b. 32 thousands ◯ 720 tens

c. 7×4 ◯ 3×9

d. 7×0 ◯ 9×1

e. 7×7 ◯ 5×8

f. 5×6 ◯ 3×10

g. 30 mm ◯ 3 cm

h. $5 + 5 + 5 + 5$ ◯ 5×5

i. 7×0 ◯ $7 + 0$

j. $7 + 1$ ◯ 7×1

3 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. 1 is a multiple of 7 ( )

b. $7 \times 0 = 0 \times 6$ ( )

c. $7 + 7 + 7 + 7 + 7 + 7 + 7 < 6 \times 7$ ( )

d. $5 \times 5 < 7 \times 4$ ( )

e. 65 is a multiple of 5 ( )

f. 200 tens < 20 hundreds ( )

g. 6 groups of 9 < 7 groups of 8 ( )

Sheet 13

Till lesson 4 B - chapter 3

1 **Use the chart. Find each product.**

a	b	c
• $8 \times 2 =$ _____	• $10 \times 3 =$ _____	• $6 \times 4 =$ _____
• $9 \times 5 =$ _____	• $8 \times 1 =$ _____	• $5 \times 6 =$ _____
• $8 \times 6 =$ _____	• $9 \times 7 =$ _____	• $6 \times 6 =$ _____
• $10 \times 2 =$ _____	• $8 \times 5 =$ _____	• $4 \times 3 =$ _____
• $8 \times 10 =$ _____	• $10 \times 7 =$ _____	• $7 \times 10 =$ _____
• $10 \times 6 =$ _____	• $9 \times 8 =$ _____	• $6 \times 3 =$ _____
• $9 \times 6 =$ _____	• $10 \times 5 =$ _____	• $4 \times 4 =$ _____
• $8 \times 7 =$ _____	• $8 \times 4 =$ _____	• $0 \times 7 =$ _____
• $9 \times 9 =$ _____	• $9 \times 3 =$ _____	• $8 \times 8 =$ _____
• $8 \times 9 =$ _____	• $8 \times 3 =$ _____	• $6 \times 9 =$ _____

2 **Put (✓) to the correct statement or (✗) to the incorrect statement.**

a. Seven hundred two thousand, seventy-two in standard form = 702, 072 ( )

b. 7 m = 70 millimeters. ( )

c. The place value of the digit 7 in the number 372, 604 is Ten thousands. ( )

d. The tally marks 𝍸 𝍸 ||| represent 553 ( )

e. 9 equal groups of 10 = 9×10 ( )

f. $8 \times 0 = 0 \times 9$ ( )

g. 13 hundreds = 130 tens ( )

3 **Use the chart. Write five common multiples of 5 and 10 greater than 10 and smaller than 100**

- Multiples of 5 are _____
- Multiples of 10 are _____
- Common multiples of 5 and 10 are _____ , _____ , _____ , _____ and _____

Sheet 14

Till lesson 5 - chapter 3

1 Complete using the given numbers. Use every number more than one time.

1 2 3 6	1 9 3 27	2 3 4 6
___ × ___ = 6	___ × ___ = 27	___ × ___ = 12
___ × ___ = 6	___ × ___ = 27	___ × ___ = 12
___ × ___ = 6	___ × ___ = 27	___ × ___ = 12
___ × ___ = 6	___ × ___ = 27	___ × ___ = 12

2 Write each factor pair and the factors of each number.

a. **20**

___ × ___ ___ × ___

___ × ___ ___ × ___

___ × ___ ___ × ___

Factors are : _____

b. **12**

___ × ___ ___ × ___

___ × ___ ___ × ___

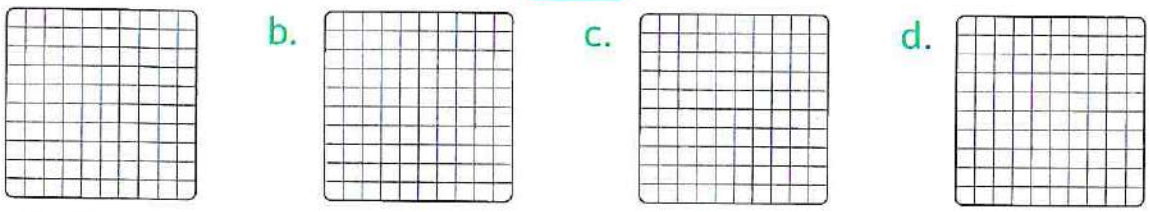
___ × ___ ___ × ___

Factors are : _____

3 Build four different arrays according to the given number.

18

a. b. c. d.



4 Join the equal results.

a. 9 × 0 b. 5 × 8 c. 1 × 12 d. 3 × 6 e. 3 × 8

2 × 6 2 × 9 4 × 6 1 × 0 4 × 10

5 Find each product that is not correct. Write it correctly.

a. $\begin{array}{r} 5 \\ \times 0 \\ \hline 5 \end{array}$ $\begin{array}{r} \square \\ \times \square \\ \hline \square \end{array}$

◯ Correct

◯ Not correct

b. $\begin{array}{r} 7 \\ \times 5 \\ \hline 12 \end{array}$ $\begin{array}{r} \square \\ \times \square \\ \hline \square \end{array}$

◯ Correct

◯ Not correct

c. $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$ $\begin{array}{r} \square \\ \times \square \\ \hline \square \end{array}$

◯ Correct

◯ Not correct

d. $\begin{array}{r} 8 \\ \times 1 \\ \hline 9 \end{array}$ $\begin{array}{r} \square \\ \times \square \\ \hline \square \end{array}$

◯ Correct

◯ Not correct

6 Find the result.

a. $7 \times 6 =$ _____

b. $9 \times 6 =$ _____

c. $4 \times 9 =$ _____

d. $7 \times 10 =$ _____

e. $8 \times 8 =$ _____

f. $5 \times 7 =$ _____

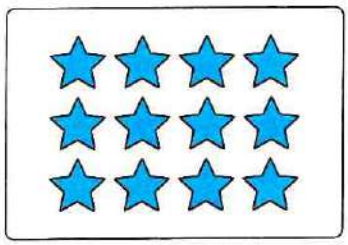
g. $2 \times 8 =$ _____

h. $7 \times 9 =$ _____

i. $6 \times 8 =$ _____

7 Look at each array. Complete.

a.

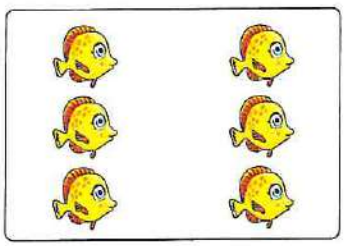


_____ equal rows

_____ in each row

_____ in all

b.



_____ equal columns

_____ in each column

_____ in all

8 Choose the correct answer.

a. 300 mm = _____ cm (3 or 30 or 300 or 3,000)

b. Three thousand, five = _____ (in standard form)

(3,005 or 3,500 or 3,050 or 350)

c. The place value of the digit 7 in the number 372,041 is _____

(Tens or Hundreds or Thousands or Ten thousands)

d. $7 \times 4 >$ _____ (5×8 or 3×10 or 3×9 or 6×5)

e. 19,562 ◯ 9,000 + 10,000 + 60 + 600 (> or < or =)

Sheet 15

Till lessons 6 & 7 - chapter 3

1 **Write the time.**

a
____ : ____

b
____ : ____

c
____ : ____

d
____ : ____

2 **Draw the clock hands.**

a
07 : 10

b
05 : 20

c
09 : 40

d
04 : 50

3 Mina left home at 7 : 00

It took him 40 minutes to get to school.

What time did he get to school ?

____ : ____

4 **Complete.**

a. The value of the digit 4 in the number 34,226 is _____

b. 7 × 8 = _____

c. 7 cm = _____ mm

d. 9 × 2 = _____

e. 4 × 6 = _____

f. The number that the minute hand will point to when the time is 03 : 25 is _____

g. 4 equal groups of 7 = _____ × _____ = _____

h. The elapsed time from 05 : 00 to 05 : 50 equals _____ minutes.

5 Fatma started playing gymnastic at 04 : 00, she played for 45 minutes. What time did she finish ?

_____

Sheet 16

Till lessons 8 & 9 - chapter 3

1 **Draw to show your work.**

a) Divide **6** into **3** equal groups

_____ in each group.

b) Divide **12** into **4** equal groups

_____ in each group.

2 **Measure the length of each line.**

a. _____ mm

b. _____ cm

c. _____ mm

3 Sara has 20 apples and wants to put them in 5 plates.

How many apples are there in each plate ?

_____

Work area

4 **Choose the correct answer.**

a. The least number formed from 7 , 0 , 4 , 1 , 2 , 9 is _____

(12,479 or 120,479 or 102,479 or 124,790)

b. The value of the digit 3 in the number 753,421 is _____

(30 or 300 or 3,000 or 30,000)

c. The number that the minute hand will point to when the time is 12 : 40 is _____ (6 or 7 or 8 or 9)

d. _____ is a factor of 12 (7 or 5 or 6 or 8)

e. 6 × 1 = _____ (0 or 6 or 7 or 8)

Sheet 17

Till lesson 10 - chapter 3

1 **Find the result.**

a. 12 ÷ 3 = _____ | b. 35 ÷ 5 = _____ | c. 42 ÷ 6 = _____

d. 28 ÷ 4 = _____ | e. 27 ÷ 3 = _____ | f. 15 ÷ 5 = _____

g. 54 ÷ 6 = _____ | h. 10 ÷ 10 = _____ | i. 32 ÷ 4 = _____

j. 40 ÷ 10 = _____ | k. 24 ÷ 4 = _____ | l. 10 ÷ 2 = _____

2 **Complete.**

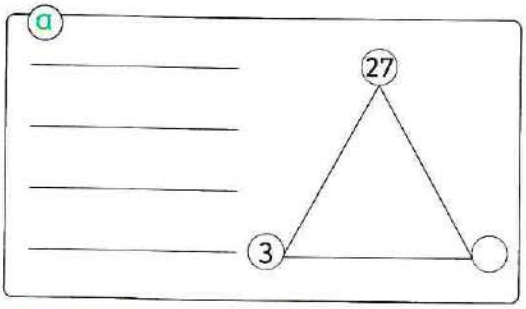
a. 4 × _____ = 24 | b. _____ ÷ 3 = 4 | c. _____ × 5 = 35

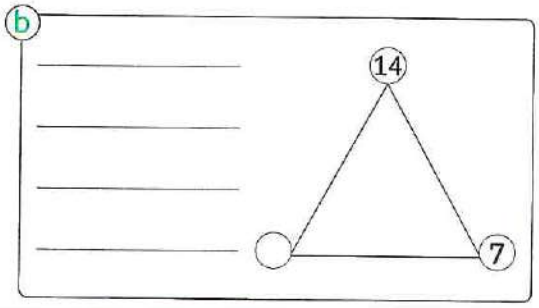
d. 6 × _____ = 18 | e. _____ ÷ 7 = 8 | f. _____ × 6 = 54

g. 18 ÷ _____ = 6 | h. 2 × 7 = _____ | i. 3 × _____ = 15

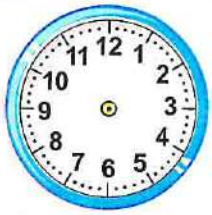
3 **Find the missing factor in each triangle**

then write the four number sentences that go with the fact family.





4 **Write and draw the hands on the clock to show the time.**



Bassem started playing football at 8 : 00

He played for 25 minutes.

What time did he finish ?

_____ : _____

5 **Write in standard form each of the following.**

a. Two thousand, seven hundred, thirty-two = _____

b. 50,000 + 800 + 9 = _____

Assessment Chapter 3

1 **Solve.**

a. 2 × 5 ____

b. 3 × 4 ____

c. 14 ÷ 2 ____

d. 6 ÷ 3 ____

e. 6 × 5 ____

f. 20 ÷ 5 ____

2 **Write each factor pair and the factors of the number 18.**

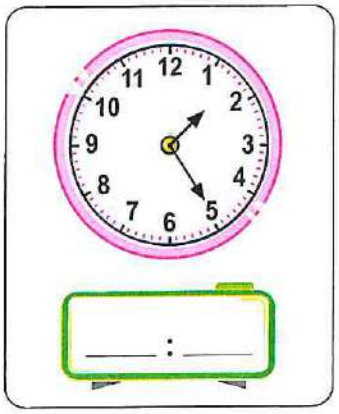
____ × ____ ____ × ____

____ × ____ ____ × ____

____ × ____ ____ × ____

• Factors are _____

3 **Write the time.**



4 **Choose the correct answer.**

a. ____ is a common multiple of 2 and 3. (4 or 12 or 8 or 5)

b. 8 × 0 = ____ (0 or 8 or 80 or 9)

c. ____ is a multiple of 5. (23 or 14 or 56 or 15)

d. 2 × ____ = 12 (10 or 8 or 14 or 6)

e. The minute hand will point to number ____ when 50 minutes have passed. (5 or 10 or 8 or 4)

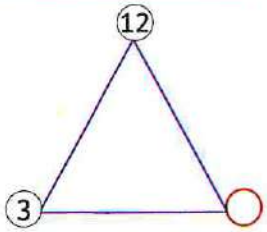
5 Ahmed bought 5 packs of ping pong balls. Each pack has 3 balls.

How many balls are there ?

_____

_____

6 Find the missing factor in the triangle. Then write the four sentences that show the fact family.



_____ _____

_____ _____

Accumulative Assessment

Till chapter 3

1 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. The three numbers 4 , 8 and 2 can form a fact family. ( )

b. $7 + 7 + 7 + 7 + 7 + 7 + 7 = 7 \times 8$ ( )

c. $3 \times 9 = 9 + 3$ ( )

d. $7 \div 7 = 7 \div 1$ ( )

e. 1 m = 100 cm ( )

f. 150 tens = 15 thousands ( )

2 Choose the correct answer.

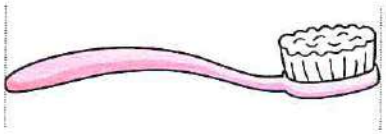
a. The minute hand will point to the number 4 when _____ minutes have passed.
(5 or 10 or 15 or 20)

b. 49 is a multiple of _____ (6 or 7 or 8 or 9)

c. $7 \times 6 =$ _____ $\times 7$ (1 or 5 or 6 or 7)

d. 5 rows of 7 = _____ (12 or 2 or 57 or 35)

e. 1 cm = _____ mm (1 or 10 or 100 or 1,000)

f. The length of the figure  = _____ cm
(3 or 4 or 5 or 6)

3 Match.

a. 3×2 b. $25 \div 5$ c. $3 + 3 + 3 + 3$ d. $8 \div 8$ e. $2 \div 1$

2×6 $36 \div 6$ 1×5 2×1 $7 \div 7$

4 Complete.

a. 5 + 30,000 + 400 + 7,000 + 60 = _____

b. 2 groups of 9 = _____ + _____

c. The tally marks 𝍸 ||| mean _____

d. 1,000 , 1,100 , 1,200 , 1,300 , _____ (in the same pattern)

e. If $8 \times 9 = 72$, then _____ $\div 8 = 9$

f. $36 \div 4 = 3 \times$ _____

5 Arrange the following numbers from least to greatest.

99,007 , 91,500 , 9,999 , 91,005 , 9,009

The order is : _____ , _____ , _____ , _____ , _____

6 Write the other facts from the family $15 \div 3 = 5$

[ ] [ ] [ ]

7 Ola bought 7 pens. If the price of the pens is 35 pounds. Find the price of each pen.

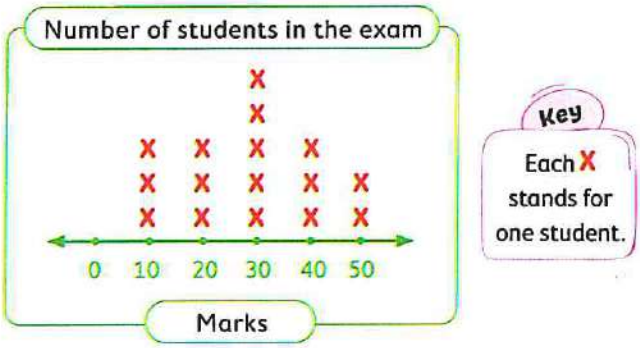
The price of each pen = _____ = _____ pounds.

8 Use the line plot to answer the questions.

a. How many students have 40 marks ? _____ students.

b. How many students have more than 30 marks ? _____ students.

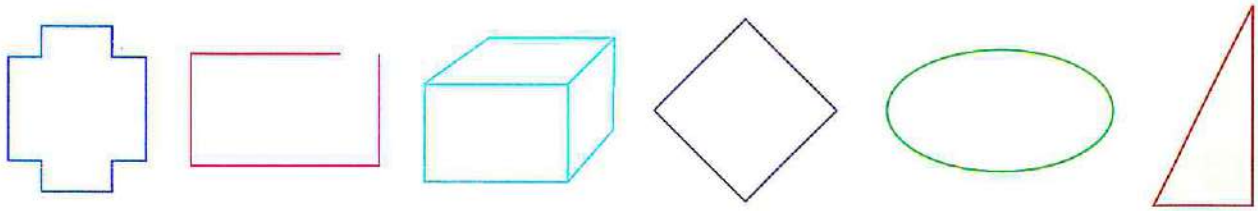
c. How many students have this exam ? _____ students.



Sheet 18

Till lesson 1 - chapter 4

1 Circle the shapes which are not polygons.



2 Join the equal answers.

a. 4×9 •	• 2×10
b. 0×7 •	• 2×4
c. 4×5 •	• 6×6
d. $24 \div 3$ •	• $30 \div 3$
e. $20 \div 2$ •	• 1×0

3 Complete.

a. The polygon which has 3 sides is called _____

b. The hexagon has _____ vertices.

c. The quadrilateral has _____ sides.

d. The _____ has 7 sides.

e. The pentagon has _____ sides and _____ vertices.

f. In any polygon, the number of _____ equals the number of _____

4 Draw a polygon with.

a	b	c
4 sides	3 vertices	6 sides

Sheet 19

Till lesson 2 - chapter 4

1 **Write the name of each quadrilateral.**

a.

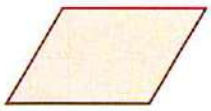
_____

b.

_____

c.

_____

d. 

_____

2 **Complete.**

a. The rectangle has _____ similar vertices.

b. The parallelogram has _____ pairs of parallel sides.

c. The square has _____ equal sides.

d. The trapezium has exactly _____ pair of parallel sides.

e. The rectangle has _____ pairs of equal sides.

f. The heptagon has _____ sides.

3 **Write the other facts from each family.**

a. $2 \times 7 = 14$

_____

_____

_____

b. $3 \times 9 = 27$

_____

_____

_____

c. $18 \div 3 = 6$

_____

_____

_____

4 Each monkey wants to eat 6 bananas.

There are 30 bananas.

How many monkeys can be fed ?

_____

_____

_____

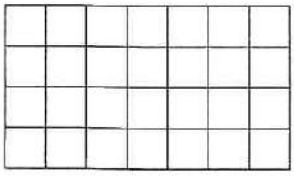
Work area

Sheet 20

Till lessons 3 to 5 - chapter 4

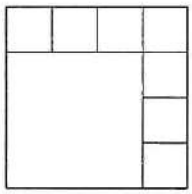
1 Complete to find the area of each of the following.

a.



Area = ____ × ____ = ____ □

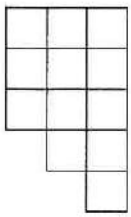
b.



Area = ____ × ____

= ____ square units

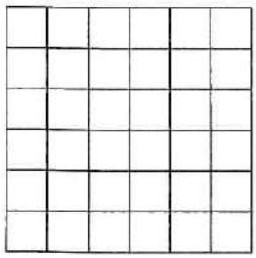
c.



Area = ____ □

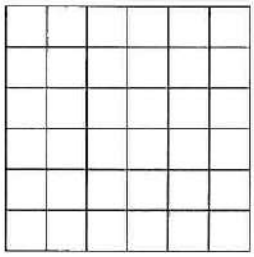
2 Use the grid to draw a rectangle represents each of the following sentences and calculate the area.

a.



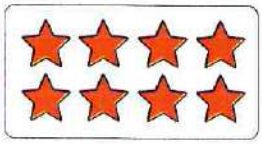
5 × 3 = ____

b.



4 × 2 = ____

3 Complete.

a.  ____ rows of ____

b. 73,289 = ____ + ____ + ____ + ____ + ____

c. The number of sides of a triangle is ____ sides.

d. The least 5-digit number formed from 7 , 5 , 8 , 9 and 1 is ____

e. The rhombus has ____ vertices.

4 Name each figure and write the missing numbers.

a.

Name : ____

____ equal sides

____ pairs of parallel sides

____ vertices

b.

Name : ____

____ pairs of equal sides

____ pairs of parallel sides

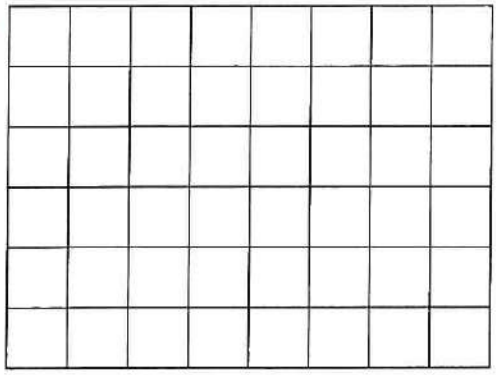
____ vertices

Sheet 21

Till lessons 6 & 7 - chapter 4

1 **Split the following array using the distributive property. Write the equations that match it.**

a.



☐ × ☐ = ☐

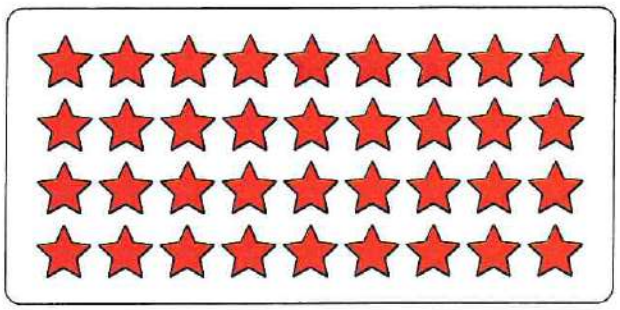
☐ × ☐ = ☐

☐ + ☐ = ○

6 × 8 = ———

6 × 8 = (— × —) + (— × —)

b.



☐ × ☐ = ☐

☐ × ☐ = ☐

☐ + ☐ = ○

4 × 9 = ———

4 × 9 = (— × —) + (— × —)

2 **Use the distributive property to complete the following equations.**

a. 7 × 13 = (7 × 5) + (7 × ——)

b. 8 × 9 = (8 × 4) + (—— × ——)

c. 5 × 11 = (5 × 3) + (—— × ——)

d. 3 × 15 = (3 × 10) + (—— × ——)

e. 8 × 12 = (8 × ——) + (8 × 7)

f. 7 × 16 = (7 × 10) + (—— × ——)

g. —— × —— = (5 × 9) + (5 × 6)

h. —— × —— = (3 × 10) + (3 × 3)

i. —— × —— = (4 × 7) + (4 × 3)

j. —— × —— = (6 × 5) + (6 × 7)

3 Discover the pattern rule. Write the missing numbers.

Rule

a. 14 , 17 , 20 , 23 , _____ , _____ [_____]

b. 30 , 28 , 26 , 24 , _____ , _____ [_____]

4 Create an array.

a. 4 rows of 2

b. 7 columns of 3

c. 1 row of 5

5 Complete.

a. 2 × 6 = _____

b. 4 × 8 = _____

c. 6 × 9 = _____

d. 5 × 10 = _____

e. 2 × 8 = 4 × _____

f. 25 ÷ 5 = _____

g. 35 ÷ 7 = _____

h. 24 ÷ 6 = _____

i. The greatest number formed from the digits 5 , 7 , 4 and 2 is _____

j. The smallest 4-digits number formed from the digits 9, 5, 0 and 8 is _____

k. The pentagon is a polygon which has _____ sides.

l. The parallelogram has _____ pairs of parallel sides.

m. 𝍸 𝍸 𝍸 represent _____

6 Write the time.

a. _____ : _____

b. _____ : _____

c. _____ : _____

d. _____ : _____

7 Write the numbers in order from least to greatest.

745,216 , 390,571 , 735,429 , 391,897 , 79,999

The order is : _____ , _____ , _____ , _____ , _____

Assessment Chapter 4

1 Choose.

a. Which of the following is not a polygon ?

◯ Square ◯ Circle ◯ Hexagon

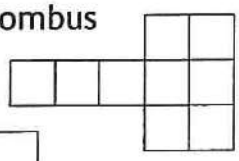
b. How many sides does this shape have ?

◯ 5 sides ◯ 7 sides ◯ 6 sides

c. Which of the following does not represent a parallelogram ?

◯ Square ◯ Trapezium ◯ Rhombus

d. The area of the opposite figure is _____

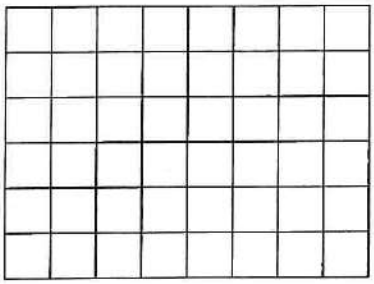


◯ 6 □ ◯ 12 □ ◯ 9 □

e. _____ = (4 × 4) + (4 × 5)

◯ 4 × 9 ◯ 4 × 6 ◯ 4 × 1

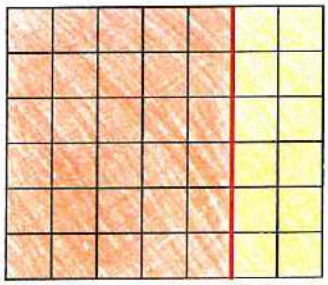
2 Calculate the area of the figure.



The area = ____ × ____

= ____ square units

3 Write the distributive property equation. Calculate the total area.

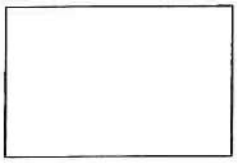


6 × 7 = (____ × ____) + (____ × ____)

= ____ square units

4 Identify each 2D shape, and write the number of each of sides and vertices.

a.

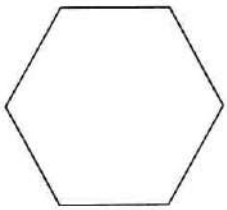


Sides □

Vertices □

Name : _____

b.



Sides □

Vertices □

Name : _____

Accumulative Assessment

Till chapter 4

1 **Complete.**

a. 321 , 432 , 543 , 654 , _____ , _____ (in the same pattern)

b. 50,000 + 500 + 3,000 + 30 + 8 = _____

c. 2 × 5 = _____

d. The pentagon is a polygon which has _____ vertices.

e. 3 m = _____ cm

f. _____ ÷ 3 = 5

g. 7 × 13 = 7 × 10 + 7 × _____

2 **Put (✓) to the correct statement or (✗) to the incorrect statement.**

a. 7 × 15 = (7 × 10) + (7 × 5) is called the distributive property of addition. ( )

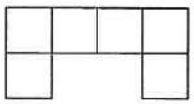
b. 3 × 7 = 7 × 3 is called the commutative property of multiplication. ( )

c. 3 rows of 5 = 3 × 5 = 15 ( )

d. 5 × 1 = 5 ÷ 1 ( )

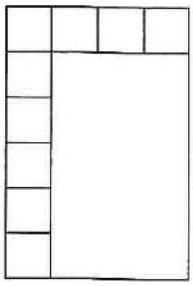
e. The rectangle's vertices are not similar. ( )

f. 5 + 5 + 5 = 3 + 3 + 3 + 3 + 3 ( )

g. The area of the figure  equals 8 □ ( )

3 **Calculate the area of each of the following.**

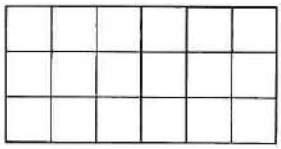
a.



Area = ___ × ___

= ___ square units

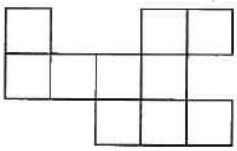
b.



Area = ___ × ___

= ___ square units

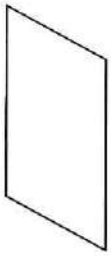
c.



Area = _____ □

4 Name each figure and write the missing numbers.

a.



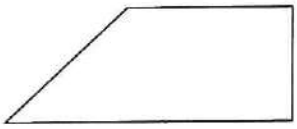
Name _____

_____ pairs of equal sides

_____ pairs of parallel sides

_____ vertices

b.



Name _____

_____ equal sides

_____ pair of parallel sides

_____ vertices

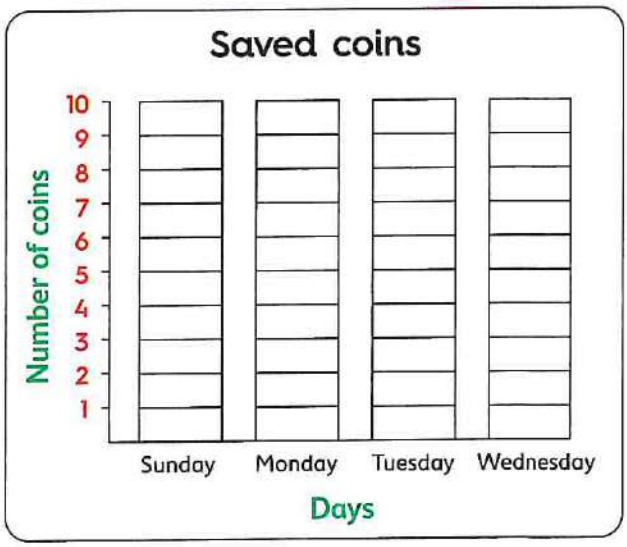
5 Draw a model groups. Then write an addition sentence and multiplication sentence for 2 groups of 3

_____ _____

6 Count the tallies. Write the total. Color the graph to show the data.

Saved coins

Day	Tally	Number
Sunday	||||	___
Monday	~~||||~~ |	___
Tuesday	~~||||~~ ~~||||~~	___
Wednesday	~~||||~~	___

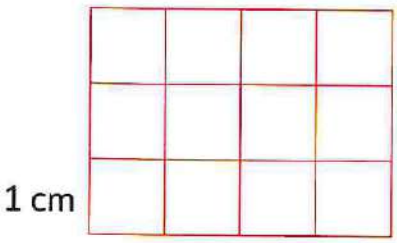


Sheet 22

Till lessons 1 & 2 - chapter 5

1 Find the perimeter and the area of each of the following.

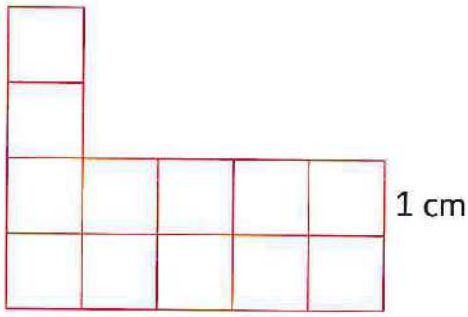
a.



Perimeter = ____ cm

Area = ____ square centimeters

b.

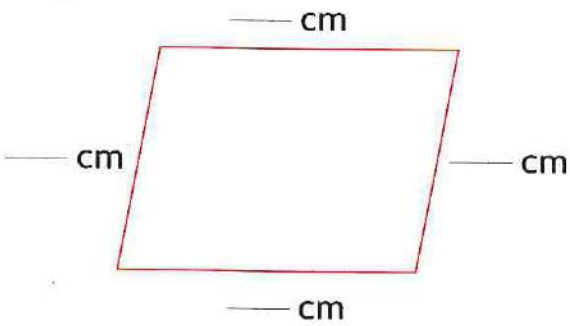


Perimeter = ____ cm

Area = ____ square centimeters

2 Measure each side and find the perimeter of each polygon.

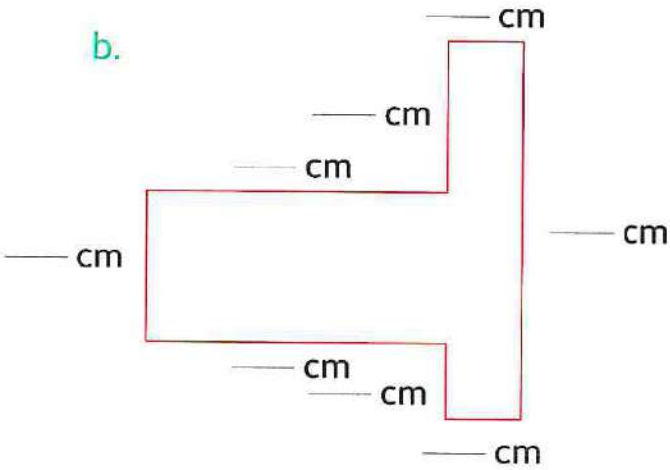
a.



Perimeter = ____ + ____ + ____

+ ____ = ____ cm

b.

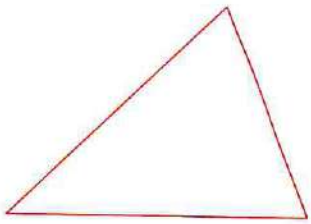


Perimeter = ____ + ____ + ____ + ____

+ ____ + ____ + ____ + ____

= ____ cm

3 Find the perimeter of the opposite triangle.



Perimeter = ____ + ____ + ____ = ____ cm

4 Choose the correct answer.

a. Which of the following does not represent a parallelogram ?

(square **or** trapezium **or** rhombus **or** rectangle)

b. What number will the minute hand point to when 5 minutes have passed ?

(1 **or** 5 **or** 4 **or** 11)

c. $3 \times 4 =$ _____ (2×2 **or** 2×6 **or** 3×5 **or** 12×0)

d. 70 mm = _____ cm (7 **or** 70 **or** 700 **or** 7,000)

e. _____ is a multiple of 3. (7 **or** 8 **or** 12 **or** 14)

f. _____ $= (6 \times 4) + (6 \times 3)$ (6×5 **or** 6×7 **or** 6×9 **or** 6×4)

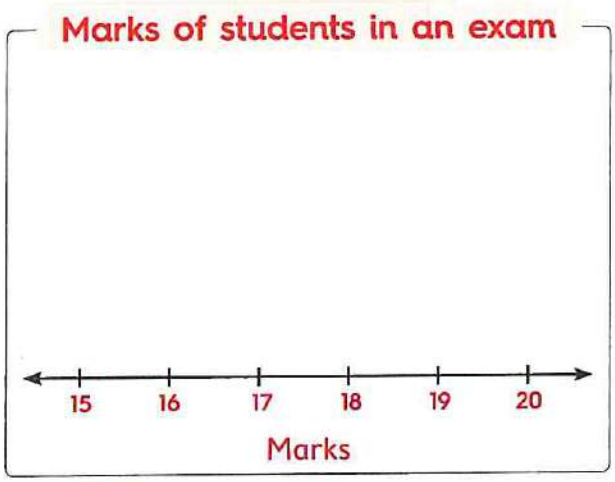
g. _____ is a common multiple of 2 and 3. (4 **or** 9 **or** 15 **or** 24)

h. $3 \times$ _____ $= 21$ (5 **or** 6 **or** 7 **or** 8)

i. Three hundred five thousand, two hundred fifty-one = _____

(35,251 **or** 53,251 **or** 350,251 **or** 305,251)

5 Use the table to draw a line plots.



Key Each X = _____ student

Marks of students in an exam	
Marks	Number of students
15	2
16	1
17	4
18	6
19	4
20	2

6 A T.V. show ended at 6:00. It lasted for 15 minutes.

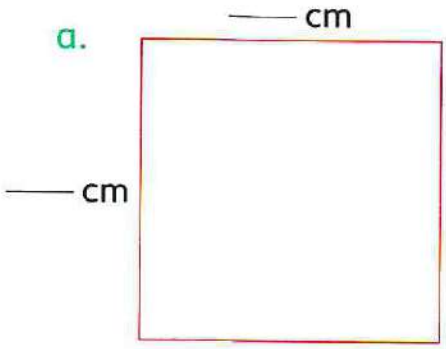
What time did the T.V. show start ? ____:____

Sheet 23

Till lessons 3 & 4 - chapter 5

1 **Use a centimeter ruler to measure the side lengths, then find the area of each figure.**

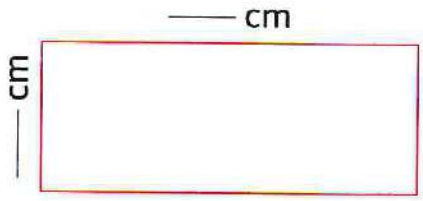
a.



Area = —— × ——

= —— square centimeters

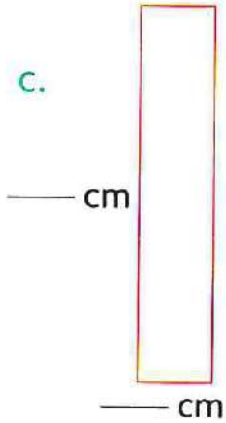
b.



Area = —— × ——

= —— square centimeters

c.

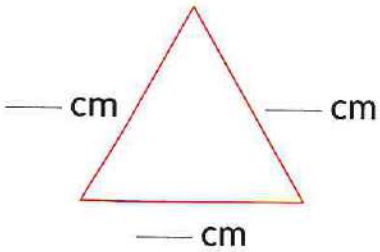


Area = —— × ——

= —— square centimeters

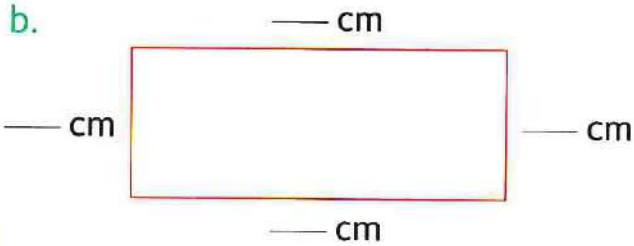
2 **Calculate the perimeter of each polygon in centimeters, then write the name of each polygon.**

a.



- Perimeter = —— + —— + —— = —— cm
- Name : _____

b.



- Perimeter = —— + —— + —— + ——

  = —— cm
- Name : _____

3 **Discover the pattern rule. Write the missing numbers.** **Rule**

a. 20 , 24 , 28 , 32 , _____ , _____ (——)

b. 40 , 35 , 30 , 25 , _____ , _____ (——)

4 Sara eats 5 carrots every day.

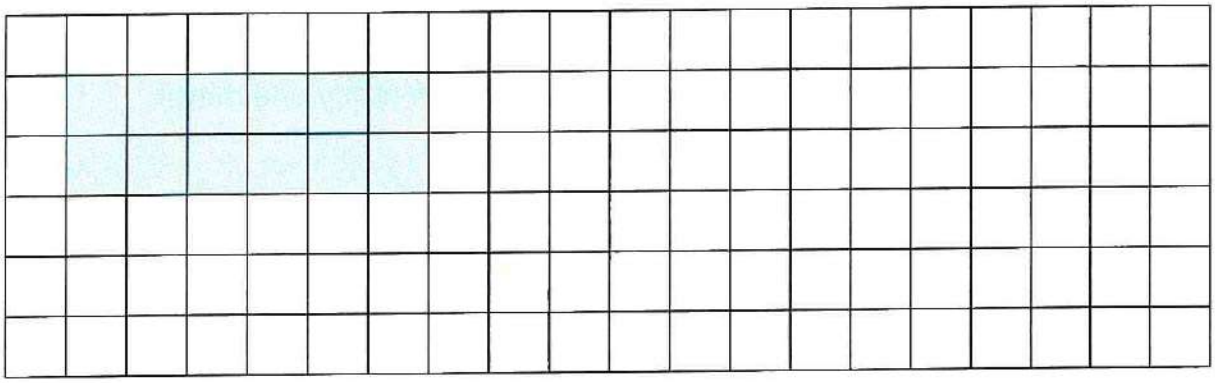
How many carrots does she eat in a week ?

_____

Sheet 24

Till lessons 5 & 6 - chapter 5

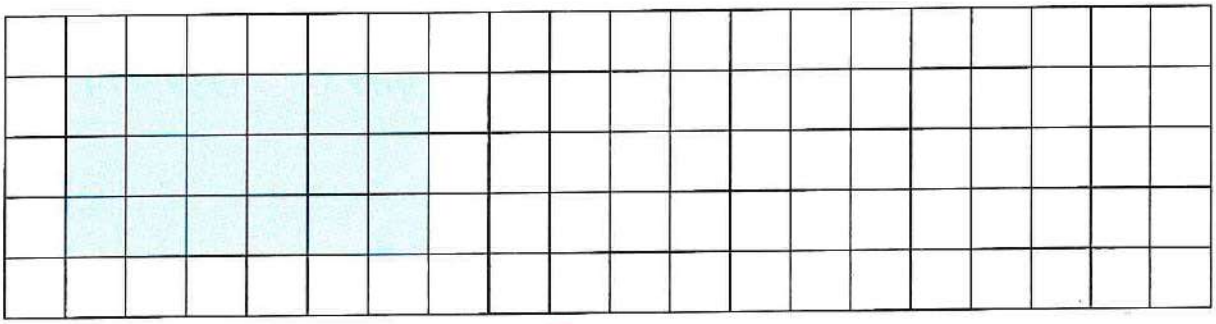
1 **Find the area and the perimeter of the drawn rectangle. Then draw another rectangle with the same area but a different perimeter in the grid and calculate it.**



- Area = _____
- Perimeter = _____

- Area = _____
- Perimeter = _____

2 **Find the area and the perimeter of the drawn rectangle. Then draw another rectangle with the same perimeter but a different area in the grid and calculate it.**



- Area = _____
- Perimeter = _____

- Area = _____
- Perimeter = _____

3 **Complete.**

a. $9 \times 8 = (9 \times 5) + (\_\_\_ \times \_\_\_)$

b. 753,920 = _____ + _____ + _____ + _____ + _____ (in expanded form)

c. $7 \times 6 =$ _____

d. $24 \div 3 =$ _____

e. 20 cm = _____ mm

Sheet 25

Till lesson 7 - chapter 5

1 A notebook had a length of 15 cm and a width of 10 cm.
What is the perimeter of the notebook ?

_____

2 Ahmed wants to tile his bedroom.
If the floor is 5 meters long and 4 meters wide, how many one meter square tiles will he need?

_____

3 Sameh has 21 oranges and wants to put them equally in 3 plates.
How many oranges are there in each plate ?

_____

4 **Find the results.**

a. $5 \times 4 =$ _____ | b. $3 \times 7 =$ _____ | c. $6 \times 7 =$ _____

d. $4 \times 9 =$ _____ | e. $35 \div 7 =$ _____ | f. $16 \div 2 =$ _____

5 **Arrange from the least to the greatest.**

740,852 , 952,640 , 579,989 , 589,979

The order is : _____ , _____ , _____ , _____

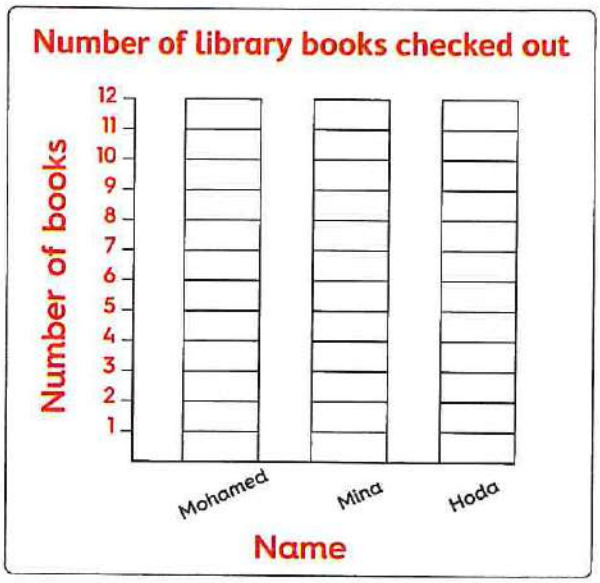
6 **Use the tally table to complete the bar graph.**

Number of library books checked out

Name	Tally
Mohamed	𝍸 𝍸 |
Mina	𝍸 |
Hoda	𝍸 𝍸 ||

a. How many books are checked out by Mohamed ? _____

b. How many books are checked out by Mina and Hoda ? _____



Sheet 26

Till lesson 8 - chapter 5

1 **Solve the following problems using any strategy.**

a. $5 \times 60 =$ ____ | b. $2 \times 30 =$ ____ | c. $4 \times 50 =$ ____

d. $7 \times 20 =$ ____ | e. $8 \times 60 =$ ____ | f. $3 \times 90 =$ ____

g. $50 \times 3 =$ ____ | h. $70 \times 6 =$ ____ | i. $40 \times 7 =$ ____

j. $20 \times 9 =$ ____ | k. $30 \times 7 =$ ____ | l. $90 \times 5 =$ ____

2 **Complete.**

a. 50,000 + 3,000 + 4 = ____ (in standard form)

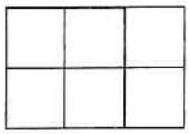
b. The place value of the digit 0 in the number 320,481 is ____

c. The greatest number formed from 3 , 0 , 1 , 9 , 8 is ____

d. ____ $\times 4 = 5 \times 8$

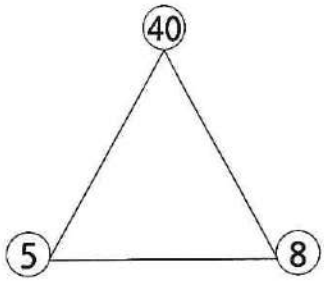
e. 20 , 24 , 28 , 32 , ____ (in the same pattern)

f. The area of the opposite figure = ____ × ____ = ____ □



3 **Write the fact family for the opposite numbers.**

- ____
- ____
- ____
- ____



4 **Put ">, = or <".**

a. 75,562 ◯ 701,561 | b. 7,200 tens ◯ 74 hundreds

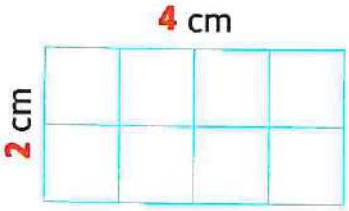
c. 7×8 ◯ 5×9 | d. $4 + 5$ ◯ 4×5

e. 7×0 ◯ 9×0 | f. $20 \div 4$ ◯ $40 \div 8$

Assessment Chapter 5

1 **Find the perimeter and the area of each of the following shapes.**

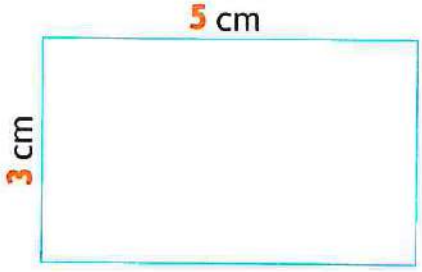
a.



Perimeter = _____ cm

Area = _____ square centimeters

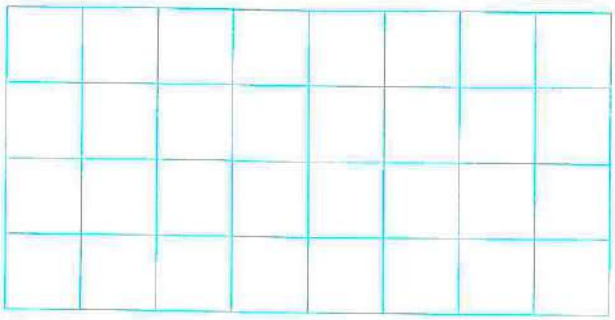
b.



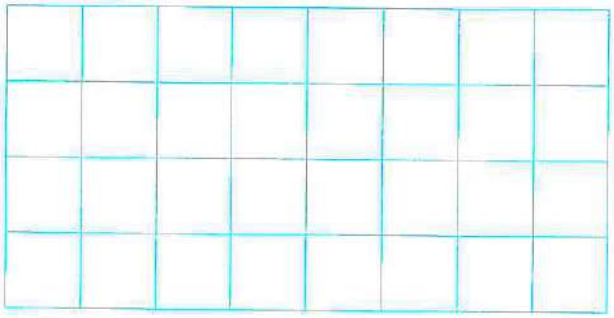
Perimeter = _____ cm

Area = _____ square centimeters

2 **Draw a rectangle of perimeter 10 length units in the grid.**



3 **Draw a rectangle of area 8 square units in the grid.**



4 **Join the equal products.**

a. 3×40 • • 4×40

b. 9×20 • • 6×10

c. 30×2 • • 6×30

d. 2×80 • • 60×2

5 Nada is sewing a border on a baby blanket. The length of the blanket is 40 cm and the width is 30 cm

How long will the border be ?

_____

_____

_____

Accumulative Assessment

Till chapter 5

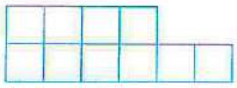
1 **Complete.**

a. 30 thousands and 3 = _____

b. ○ , □ , △ , ▭ , ○ , □ , _____ , _____ (in the same pattern)

c. 27 ÷ 3 = _____

d. The hexagon is a polygon which has _____ sides.

e. The area of the shape  equals _____ □

f. The perimeter of the rectangle is _____ cm.

3 cm

7 cm

g. 7 × 30 = _____

2 **Choose the correct answer.**

a. 15 thousands ☐ 51 hundreds. (< **or** = **or** >)

b. 6 × 3 tens ☐ 9 × 2 tens. (< **or** = **or** >)

c. 1 m = _____ cm (1 **or** 10 **or** 100 **or** 1,000)

d. The area of a rectangle with 5 cm long and 2 cm wide equals _____ square centimeters. (7 **or** 14 **or** 10 **or** 100)

e. The value of the digit 6 in the number 26,345 is _____

(6 **or** 60 **or** 600 **or** 6,000)

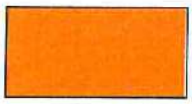
3 **Put (✓) to the correct statement or (✗) to the incorrect statement.**

a. A rectangle with 5 units wide and 10 units length has an area of 50 square units. ( )

b. 70 + 300 + 5,000 + 10,000 = 15,370 ( )

c. 4 rows of 5 = 4 + 4 + 4 + 4 ( )

d. 49 is a multiple of 7 ( )

e. The two rectangles  3 cm and 2 cm have

6 cm

7 cm

the same area but different perimeter. ( )

4 Sameh wants to make a wooden frame around the window of his room which is 3 m long and 1 m wide , **so what length of wood does he need for the frame ?**

_____

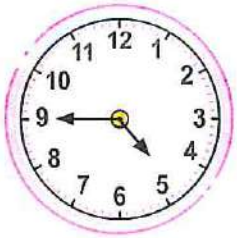
_____

5 **Write the time.**

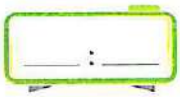
a.

It is _____

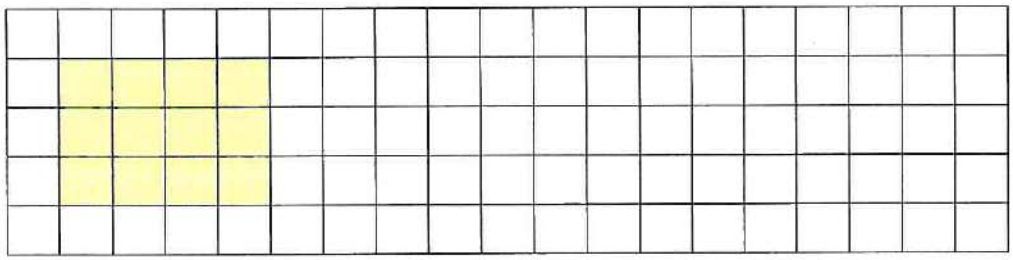
b.



It is _____



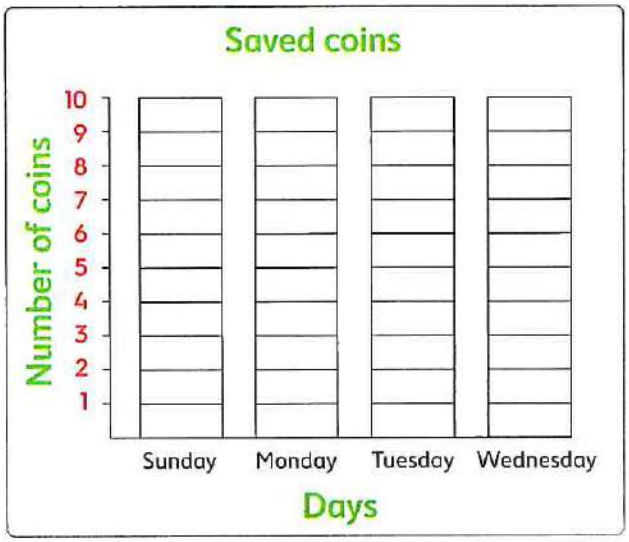
6 **Draw a rectangle of the same perimeter of the drawn rectangle in the grid.**



7 **Count the tallies. Write the total. Color the graph to show the data.**

Saved coins

Day	Tally	Number
Sunday	|||	___
Monday	𝍸	___
Tuesday	𝍸 𝍸	___
Wednesday	𝍸 ||	___



Sheet 27

Till lesson 1 - chapter 6

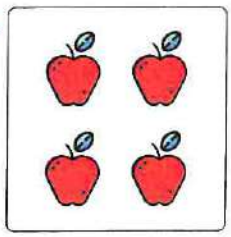
1 **Find the following products.**

a. $5 \times 30 =$ ____ | b. $4 \times 200 =$ ____ | c. $6 \times 3{,}000 =$ ____

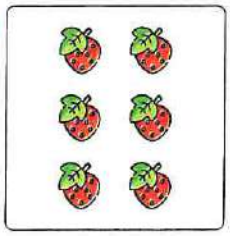
d. $5 \times 700 =$ ____ | e. $3 \times 400 =$ ____ | f. $4 \times 8{,}000 =$ ____

g. $2 \times 900 =$ ____ | h. $8 \times 900 =$ ____ | i. $7 \times 400 =$ ____

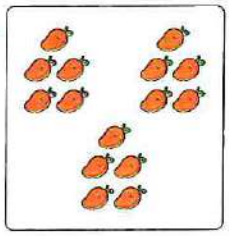
2 **Write a multiplication sentence for each.**

a. 

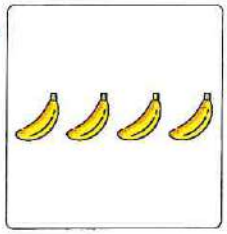
____

b. 

____

c. 

____

d. 

____

e. $2 + 2 + 2 + 2 = 8$

____

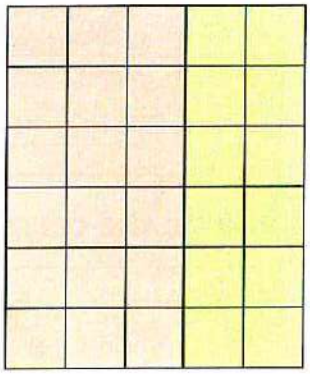
f. $4 + 4 + 4 + 4 = 16$

____

g. $9 + 9 + 9 = 27$

____

3 **Write the distributive property equation.**
Calculate the total area.

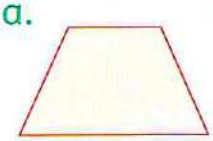


$6 \times 5 =$ (____ × ____) + (____ × ____)

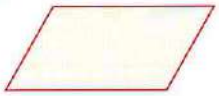
$=$ ____ + ____

$=$ ____ square units

4 **Write the name for each of the following.**

a. 

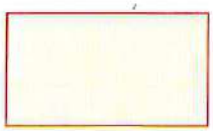
____

b. 

____

c.

____

d. 

____

Sheet 28

Till lesson 2 - chapter 6

1 Complete.

a. 9 × ____ = 18
b. 9 × ____ = 45
c. 9 × 6 = ____
d. 9 × 7 = ____
e. ____ × 9 = 36
f. 9 × ____ = 0
g. 9 × 8 = ____
h. 9 × ____ = 81
i. 9 × 10 = ____
j. 8 × 8 = ____
k. 6 × 7 = ____
l. ____ × 5 = 45
m. 7 × 7 = ____
n. ____ × 4 = 32
o. 9 × ____ = 27

2 Arrange from the greatest to the least.

170,072 , 52,791 , 203,415 , 204,111

The order is : ____ , ____ , ____ , ____

3 Write the time.

a ____ : ____

b ____ : ____

c ____ : ____

4 Circle the correct answer.

a. 200 mL 200 L

b. 2 mL 2 L

c. 350 mL 350 L

5 Mostafa is a farmer. His farm is 150 m long and 100 m wide. He wants to install a fence all around his farm.

What is the length of the fence ?

_____

Sheet 29

Till lesson 3 - chapter 6

1 Complete.

a. $3 \times$ _____ $= 5 \times 3$

b. $6 \times 4 =$ _____

c. $8 \times$ _____ $= 0$

d. $5 \times 9 = (5 \times$ _____$) + (5 \times 6)$

e. $7 \times$ _____ $= 7$

f. $9 \times 9 =$ _____

g. $0 + 10 =$ _____

h. $1 \times 9 =$ _____

i. $3 \times 2 =$ _____ $\times 3$

j. $10 \times 0 =$ _____

k. _____ $\times 5 = 5$

l. $9 + 1 =$ _____

m. $7 \times$ _____ $= (7 \times 2) + (7 \times 3)$

n. $3 + 3 =$ _____ $\times 3$

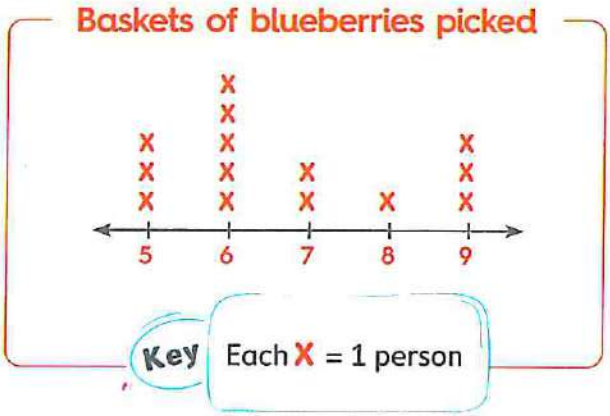
o. $17 +$ _____ $= 17$

2 Use the baskets of blueberries picked line plot.

a. How many people picked 9 baskets of blueberries ? _____

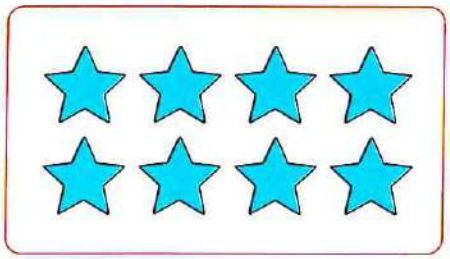
b. How many people picked fewer than 7 baskets of blueberries ? _____

c. How many people picked more than 6 baskets of blueberries ? _____



3 Look at each array. Complete.

a.



_____ equal rows

_____ in each row

_____ in all

b.

_____ equal rows

_____ in each row

_____ in all

4 Arrange from the least to the greatest.

178,000 , 432,823 , 97,988 , 201,003

The order is : _____ , _____ , _____ , _____

Sheet 30

Till lesson 4 - chapter 6

1 Choose the correct answer.

a. The value of the digit 5 in the number 351,861 is _____

(500 or 5,000 or 50,000 or 500,000)

b. 94,782 > _____ (111,111 or 201,500 or 79,999 or 100,000)

c. 5,000 + 700,000 + 30 = _____

(573,000 or 705,030 or 750,300 or 570,300)

d. The place value of the digit 8 in the number 841,921 is _____

(Hundreds or Thousands or Ten thousands or Hundred thousands)

e. 9 × 0 = _____ (7 + 0 or 8 × 1 or 1 × 9 or 0 × 10)

f. 74,215 > _____ (74,225 or 74,316 or 74,005 or 75,000)

g. 80,000 + 7,000 + 123 ☐ 7,000 + 800,000 + 123 (< or = or >)

h. 1 hundred thousand = _____ ten thousands

(1 or 10 or 100 or 1,000)

2 Complete.

a. _____ × 9 = 18	b. 9 × _____ = 63	c. _____ × 9 = 54
d. _____ × 2 = 14	e. 8 × _____ = 24	f. 5 × _____ = 10
g. 5 × 9 = _____	h. 2 × 7 = _____	i. 7 × 8 = _____
j. 30 ÷ 6 = _____	k. 6 × 700 = _____	l. 9 × 8 = _____

3 Complete the table.

Shape	Name	Number of sides	Number of vertices
a. ☐	_____	_____	_____
b. ⬡	_____	_____	_____
c. △	_____	_____	_____

Sheet 31

Till lesson 5 - chapter 6

1 Solve the following addition problems using two different strategies.

Problem	First strategy	Second strategy
a. 728 + 189		
b. 543 + 58		

2 Solve the following problems.

a. 217 + 98 + 148

= _____

= _____

b. (125 + 41) + (59 + 235)

= _____

= _____

3 Write the time in two ways.

a

_____ : _____

It's _____

_____

b

_____ : _____

It's _____

_____

c

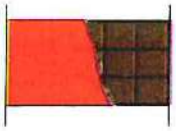
_____ : _____

It's _____

_____

4 Tick (✓) to the suitable unit to measure each object.

a.



mm ☐ m ☐

b.

mm ☐ m ☐

Sheet 32

Till lesson 6 - chapter 6

1 Solve the following subtraction problems using two different strategies.

Problem	First strategy	Second strategy
a. 562 – 279		
b. 380 – 74		

2 Put "> , < or =".

a. 702,432 ◯ Seven hundred two thousand, three hundred thirty-two

b. 7 × 4 ◯ 5 × 3

c. 70 thousands ◯ 700 hundreds

d. 7 + 0 ◯ 8 × 0

e. 40 ÷ 5 ◯ 56 ÷ 8

f. 734 + 266 ◯ 734 – 266

g. 7 + 7 + 7 + 7 + 7 ◯ 7 × 7

h. 9 + 1 ◯ 9 × 1

i. 6 × 30 ◯ 60 × 3

j. 20 × 5 ◯ 10 tens

k. 8 × 4 ◯ 8 ÷ 4

3 Complete.

a. 9 × 400 = _____

b. 8 × 7,000 = _____

c. 4 × 8 = _____

d. 4 × 5,000 = _____

e. 9 × 9 = _____

f. 7 × 8 = _____

g. 3 , 13 , 23 , 33 , _____ , _____ (in the same pattern)

4 Judy wants to tile the kitchen floor.
If the floor is 3 meters long and 2 meters wide.
How many one meter square tiles will she need ?

_____

_____

Sheet 33

Till lesson 7 - chapter 6

1 Jana had 435 trading cards. She gave away 118 cards.
How many cards does she have left ?

_____

_____

2 A Boeing 747 airplane has 416 seats. A Boeing 767 airplane has 245 seats.
What is the greatest number of passengers the two airplanes can carry altogether ?

_____

_____

3 Wael had 6,000 pounds. He bought a new mobile for 3,250 pounds and a speaker for 675 pounds. **How much money does have left with him ?**

_____

_____

4 **Find the results using any strategy.**

a. 721 + 182 = _____

b. 54 + 891 = _____

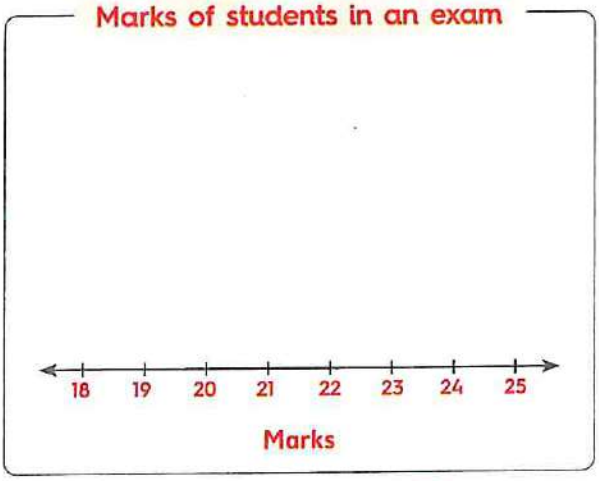
c. 1,330 – 1,270 = _____

d. 1,435 + 2,394 = _____

e. 855 – 105 = _____

f. 98 + 312 + 175 = _____

5 **Complete the table, then draw a line plot.**



Marks of students in an exam

Marks	Tally	Number of students
18	||	_____
19	||||	_____
20	卌 |	_____
21	卌 |||	_____
22	卌	_____
23	|||	_____
24	|	_____
25	|	_____

Key Each **X** = 1 student

Sheet 34

Till lessons 8 & 9 - chapter 6

1 Choose the correct answer.

a. 11 L = _____ mL (110 or 1,100 or 11,000 or 110,000)

b. 7 cm = _____ mm (7 or 70 or 700 or 7,000)

c. _____ × 9 = 36 (4 or 5 or 6 or 7)

d. 7 × 8 = _____ (54 or 49 or 56 or 64)

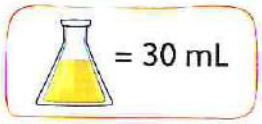
e. The capacity of a perfume bottle is measured by _____ (mL or L)

f. 3 × 700 = _____ (210 or 2,100 or 2,400 or 1,400)

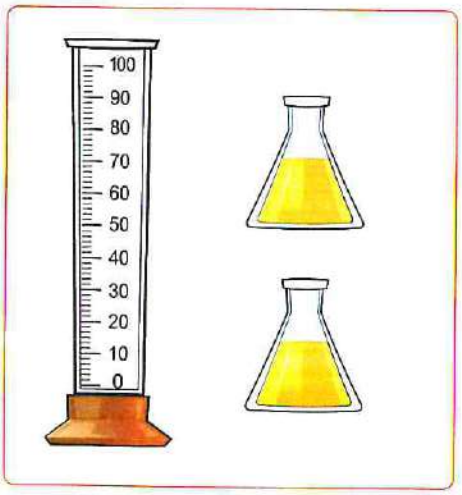
g. _____ L = 7,000 mL (7 or 70 or 700 or 7,000)

h. 600 + 7,000 + 10,000 = _____ (671 or 176 or 1,760 or 17,600)

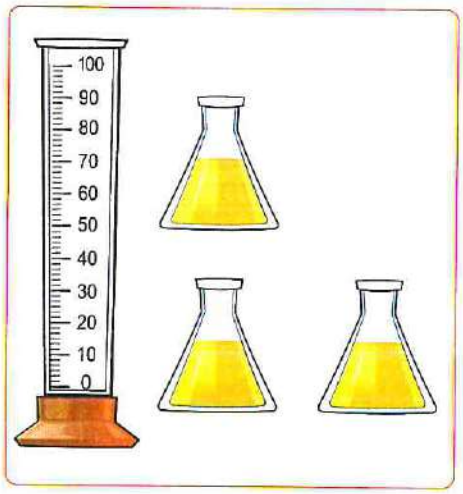
2 Color to reach the required measures.



a.



b.



3 Draw the clock hands.

a

07 : 55

b

04 : 10

Assessment Chapter 6

1 Choose the correct answer.

a. _____ – 269 = 372
- ◯ 103
- ◯ 475
- ◯ 641
- ◯ 117

b. 20 thousands = _____ tens.
- ◯ 20
- ◯ 200
- ◯ 2,000
- ◯ 20,000

c. 3 × 7,000 = _____
- ◯ 2,100
- ◯ 21,000
- ◯ 210
- ◯ 21

d. The value of the digit 4 in the number 542,098 is _____
- ◯ 400,000
- ◯ 40,000
- ◯ 4,000
- ◯ 400

e. 806,257 < _____
- ◯ 752,608
- ◯ 806,255
- ◯ 806,258
- ◯ 257,808

f. 8 × _____ = (8 × 5) + (8 × 2)
- ◯ 10
- ◯ 3
- ◯ 8
- ◯ 7

2 Find the result.

a.
```
  5 2 9
+ 3 5 6
_________
```

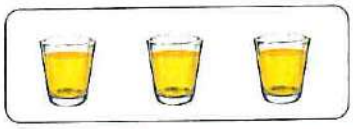
b.
```
  6,6 5 0
− 2,8 0 0
_________
```

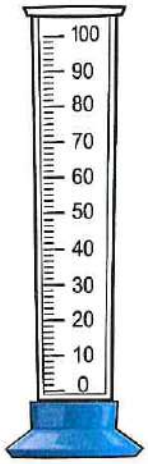
c. 3,298 + 967 = _____

d. 7,000 – 3,251 = _____

3 Color to reach the required measure.

Key : = 30 ml





4 Complete.

a. 9 × 7 = _____

b. 5 × 30 = (5 × _____) × 10

c. 20 × 6 = _____

d. 7 L = _____ mL

e. 5,000 mL = _____ L

f. _____ × 9 = 36

5

Sama's family saved 7,000 L.E. to buy a new TV and a speaker. If the TV costs 4,500 L.E. and the speaker costs 375 L.E.

How much money were left with Sama's family ?

_____

Accumulative Assessment

Till chapter 6

1 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. 3 cm = 300 mm ( )

b. The square's vertices are similar. ( )

c. 12 is a multiple of 3 ( )

d. 3 rows of 4 = 3 + 3 + 3 ( )

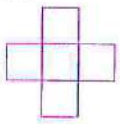
e. 2,345 = 5 + 400 + 30 + 2,000 ( )

f. The tally marks 𝍸 𝍸 | represent 11 ( )

2 Complete.

a. 1 2 3 , 2 3 4 , 3 4 5 , _____ , _____ (in the same pattern).

b. The pentagon is a polygon which has _____ vertices.

c. The area of the shape  equals _____ □

d. The place value of the digit 6 in the number 3,645 is _____

e. The minute hand will point to the number 5 when _____ minutes have passed.

f. 9 × 17 = (9 × 10) + (9 × _____)

3 Use any strategy to find.

a. 324 + 135 = _____

b. 765 – 341 = _____

c.
```
   2,756
+  3,857
_________
```

d.
```
   9,000
−  4,567
_________
```

4 Mai saved 540 pounds in one year. The next year she saved 475 pounds.

What is the total amount she saved ?

_____

5 Choose the correct answer.

a. 200 cm + 500 cm = _____ m (2 or 3 or 5 or 7)

b. 7 × 9 = 9 × _____ (7 or 8 or 5 or 2)

c. 210 hundreds = _____ thousands (210 or 2,100 or 2,1000 or 21)

d. 5 × 2 tens ◯ 10 tens (< or = or >)

e. 7,000 milliliters = _____ liters (7 or 70 or 700 or 7,000)

f. The perimeter of the rectangle

is _____ cm (4 or 6 or 10 or 20)

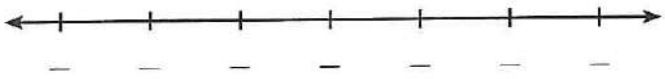
6 Match.

a. 5,621 + 1,798 b. 279 + 95 c. 521 – 186 d. 2,030 – 1,521

374 509 7,419 335

7 Use the table to draw a line plot.

Ages of children in karate class



_____

Key _____

Ages of children in karate class

Age in years	Tallies
7	||
8	||||
9	||
10	~~||||~~ |
11	|||
12	||
13	|

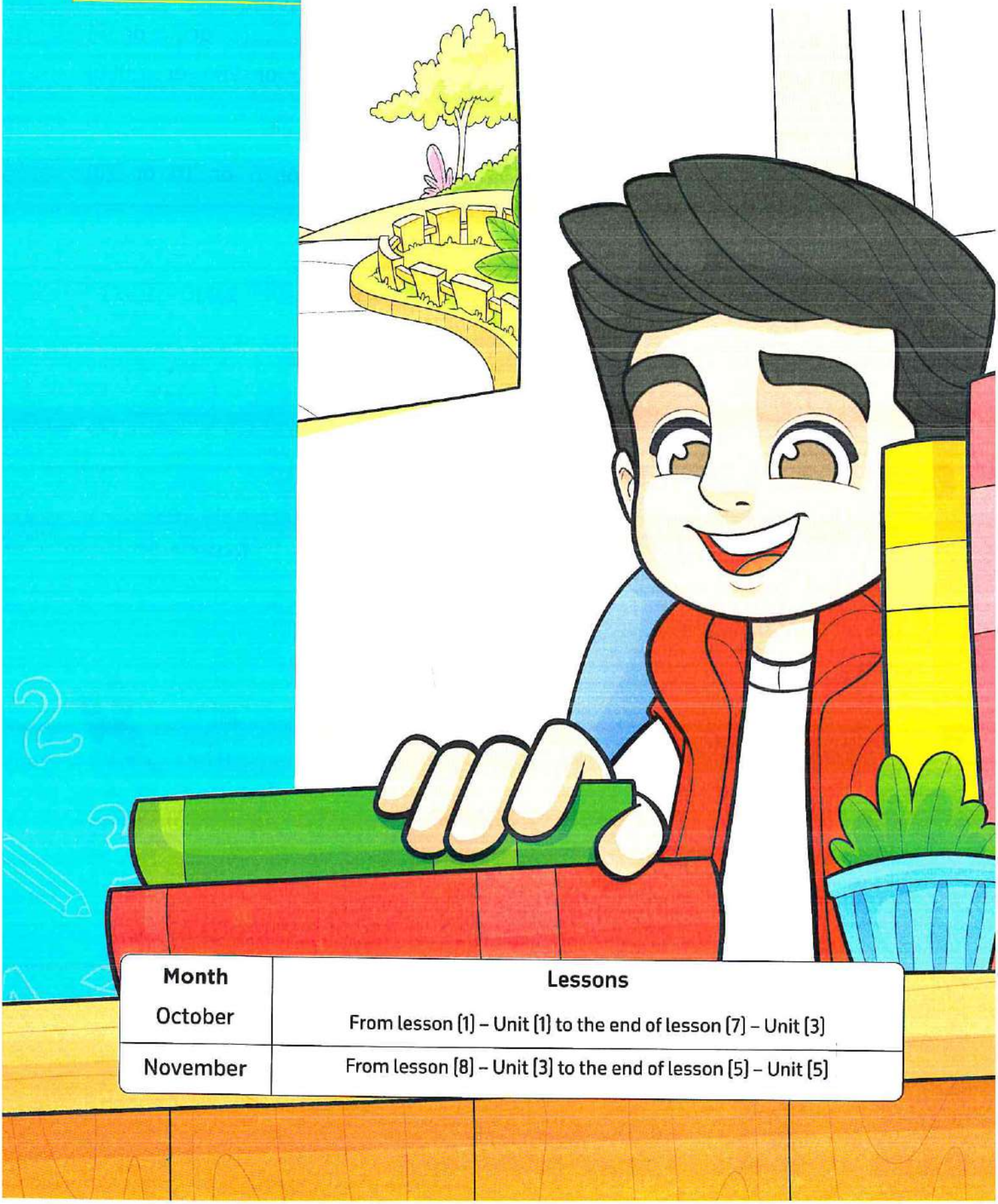
Use the line plot to answer the questions :

a. How many children in the class are 11 years ? _____ children

b. What age is the greatest number of children ? _____ years old

c. How many children are in karate class in all ? _____ children

Second Monthly Tests



Month	Lessons
October	From lesson (1) – Unit (1) to the end of lesson (7) – Unit (3)
November	From lesson (8) – Unit (3) to the end of lesson (5) – Unit (5)

October Tests

Test 1

1 Choose the correct answer :

a. 50 mm = _____ cm (10 or 500 or 5 or 25)

b. 8,000 + 500 + 40 = _____ (in standard form)

(5,480 or 8,450 or 8,540 or 8,504)

c. 4 + 4 + 4 = _____ × 4 (2 or 3 or 4 or 5)

d. _____ is a multiple of 3 (8 or 9 or 13 or 16)

e. 31,854 _____ 31,845 (> or < or =)

2 Complete the following :

a. The rule of the pattern : 48 , 43 , 38 , 33 , ... is _____

b. 170 cm = _____ m and _____ cm

c. 500 tens = _____ thousands.

d. The place value of the digit 7 in the number 75,081 is _____

e. 0 × 10 = _____

3 Answer the following questions :

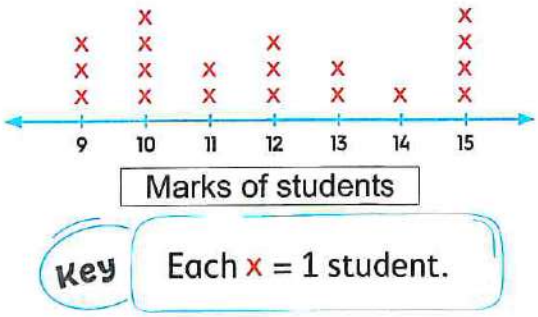
a. Hany started playing football at 04 : 00 and he played for 50 minutes.
What time did he finish ?

_____

b. **From the opposite line plot :**

(1) How many students got 10 marks ?

(2) How many students got more than 12 marks ?



Test 2

1 Choose the correct answer :

a. In the array ☆☆☆ ☆☆☆ the number of rows is _____ (2 or 3 or 6 or 5)

b. _____ is a common multiple of 5 and 6 (15 or 24 or 30 or 36)

c. The value of the digit 4 in the number : 84,916 is _____

(40 or 400 or 4,000 or 40,000)

d. Sixteen thousand , forty-eight = _____

(1,648 or 16,048 or 16,408 or 61,480)

e. 18 = 2 × _____ (6 or 7 or 8 or 9)

2 Complete the following :

a. 211,965 in word form is _____

b. 5 × 7 = 7 × _____

c. The length of is _____ cm.

d. 10 × 10 = _____

e. 12 , 15 , 18 , 21 , _____ (in the same pattern)

3 Answer the following questions :

a. Arrange the following numbers in an ascending order :

3,581 , 50,318 , 5,831 , 102,007

The order is : _____ , _____ , _____ , _____

b. Ayman saves 9 pounds every week.

How much he will save in 8 weeks ?

_____

Test 3

1 Choose the correct answer :

a. 3 rows of 5 = _____ (3 × 5 or 3 + 3 + 3 or 8 or 3 × 3)

b. 2 m _____ 150 m (> or < or =)

c. 40 thousands = _____ tens (4 or 400 or 4,000 or 40,000)

d. The tally marks 𝍸 | means _____ (5 or 6 or 51 or 60)

e. The value of the digit 8 in the number 864,391 is _____

(8,000 or 80,000 or 800 or 800,000)

2 Complete the following :

a. The time shown is _____

b. 56,207 = _____ + _____ + _____ + _____ (in expended form)

c. 3 × _____ = 27

d. If Bassem runs 2 hours every day , then the number of running hours in 6 days is _____ hours.

e. 9 + 9 + 9 + 9 + 9 = _____ × _____

3 Answer the following questions :

a. Build the array 3 rows of 3 , then write its multiplication sentence.

_____

_____

_____

b. Write the greatest and the least numbers formed from : 5 , 8 , 0 , 4 , 6

- Least number is _____
- Greatest number is _____

November Tests

Test 1

1 Choose the correct answer :

a. 35 ÷ 5 = _____ (3 or 4 or 6 or 7)

b. The polygon that has 5 sides is _____

(a rhombus or a pentagon or a hexagon or a heptagon)

c. The rectangle has _____ vertices. (3 or 4 or 5 or 6)

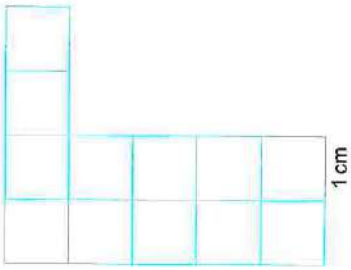
d. 7 × 8 = (7 × 5) + (7 × _____) (3 or 8 or 7 or 4)

e. 5 × 4 _____ 70 ÷ 7 (> or < or =)

2 Complete the following :

a. The figure is called _____

b. The perimeter of the opposite figure is _____ cm.



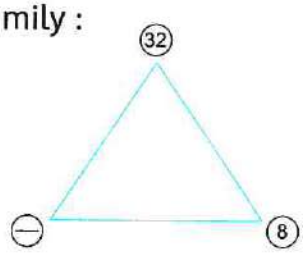
c. The hexagon has _____ sides.

d. _____ × _____ = (5 × 3) + (5 × 6)

e. 10 ÷ 1 = _____

3 Answer the following questions :

a. Find the missing factor in the triangle , then write the fact family :



_____ × _____ = _____

_____ × _____ = _____

_____ ÷ _____ = _____

_____ ÷ _____ = _____

b. Each monkey ate 5 bananas , if there are 20 bananas.

How many monkeys are there ?

_____

Test 2

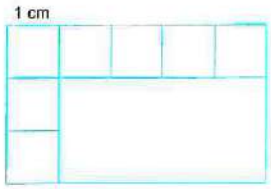
1 Choose the correct answer :

a. Which of the following is not a polygon ?

(triangle **or** circle **or** rectangle **or** octagon)

b. _____ ÷ 8 = 3 (16 **or** 18 **or** 21 **or** 24)

c. The area of the opposite figure is _____ square centimeters.



(8 **or** 15 **or** 16 **or** 25)

d. 24 ÷ 6 _____ 12 ÷ 3 (> **or** < **or** =)

e. How many groups of 5 are in 40 ? _____ (8 **or** 6 **or** 35 **or** 9)

2 Complete the following :

a. The quadrilateral that has only 1 pair of parallel sides is called a _____

b. The perimeter of the rectangle

is _____ cm

c. _____ × 7 = 28

d. The polygon that has 7 sides is called a _____

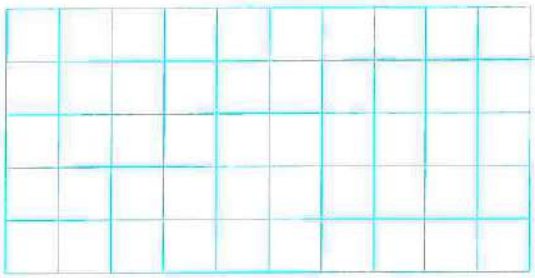
e. 3 × 6 = (3 × _____) + (3 × 4)

3 Answer the following questions :

a. Judy wants to distrbute 18 oranges on 6 plates equally.
How many oranges in each plate ?

_____

b. Draw a rectangle of area 20 square units of the grid.



Test 3

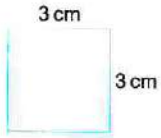
1 Choose the correct answer :

a. $(3 \times 4) + (3 \times 5) = 3 \times$ _____ (6 or 7 or 8 or 9)

b. Which of the following does not represent a parallelogram ?

(rectangle or square or rhombus or trapezium)

c. The area of the opposite figure is _____ square centimeters.



(6 or 12 or 9 or 18)

d. $5 \times$ _____ $= 45$ (7 or 8 or 9 or 10)

e. The _____ has 2 pairs of equal sides.

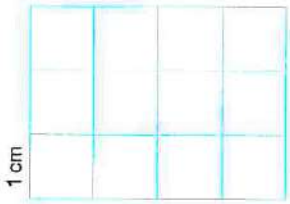
(triangle or trapezium or rectangle or circle)

2 Complete the following :

a. Any quadrilateral has _____ vertices.

b. $6 \times$ _____ $= 36$

c. The perimeter of the opposite figure is _____ cm.

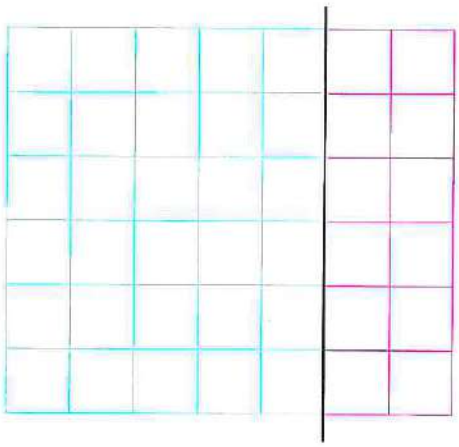


d. $2 + 6 = 32 \div$ _____

e. The octagon has _____ sides.

3 Answer the following questions :

a. Write the distributive property equation.
Calculate the total area.



$6 \times 7 =$ (_____ $\times$ _____)

$+$ (_____ $\times$ _____)

$=$ _____ square units.

b. Dina wants to put 64 pens in 8 boxes.
How many pens in each box ?

_____

Third General Revision

General Revision | on Chapter 1

1 Choose the correct answer.

1. The next number in the pattern : 8 , 7 , 6 , ... is _____ *(Alex. - Montaza 25)*
(5 **or** 4 **or** 3 **or** 1)

2. The missing number in the pattern : 16 , 20 , 24 , ... , 32 is _____ *(Port Said 25)*
(28 **or** 30 **or** 8 **or** 31)

3. 20 , 25 , 30 , _____ (in the same pattern) *(El-Beheira 25)*
(35 **or** 36 **or** 37 **or** 38)

4. 9 , 19 , 29 , 39 , _____ (in same pattern) *(El-Monofia - Berket El-Sabe 25)*
(40 **or** 45 **or** 49 **or** 50)

5. 33 , 38 , 43 , _____ (in the same pattern) *(El-Kalyoubia 25)*
(44 **or** 45 **or** 48 **or** 50)

6. 10 , 20 , 30 , 40 , _____ (in the same pattern) *(El-Kalyoubia 25)*
(50 **or** 40 **or** 30 **or** 20)

7. 3,000 , 3,100 , 3,200 , 3,300 , _____ (in the same pattern) *(El-Monofia - Menouf 25)*
(3,700 **or** 3,400 **or** 33,000)

8. The rule of the pattern : 16 , 20 , 24 , ... is _____ *(El-Menia - Samalout 25)*
(+ 4 **or** – 4 **or** + 2 **or** – 2)

9. The rule of the pattern : 37 , 42 , 47 , 52 , ... is _____ *(El-Monofia - Quesna 25)*
(+ 3 **or** – 4 **or** + 5 **or** – 5)

10. The best choice to measure the height of a palm tree _____ *(Cairo - East Nasr City 25)*
(m **or** cm **or** mm **or** km)

11. The length of your pen is measured by _____ *(El-Menia - Beni Mazar 25)*
(meter **or** centimeter **or** millimeter)

12. 3 meters = _____ centimeters. *(Cairo - El Waily 25)* (30 **or** 300 **or** 3 **or** 3,000)

13. 3,200 cm = _____ m *(Aswan - Kom Ombo 25)* (32 **or** 320 **or** 3,200)

14. 5 m + 5 cm = _____ cm *(Kafr El-Sheikh 25)* (55 **or** 505 **or** 550 **or** 5)

15. 8 cm = _____ mm *(Cairo - El Mokatam 25)* (800 **or** 80 **or** 8,000 **or** 8)

16. 15 cm = ———— mm *(Souhag - Akhmeem 25)* (15 **or** 150 **or** 1,500 **or** 15,000)

17. 70 mm = ———— cm *(Alex. - East 25)* (7,000 **or** 700 **or** 70 **or** 7)

18. 300 mm = ———— cm *(El-Gharbia 25)* (2 **or** 30 **or** 300 **or** 3,000)

19. 8 meters _____ 900 cm *(Alex. - Montaza 25)* (< **or** > **or** =)

20. 50 mm _____ 6 cm *(El-Beheira 25)* (> **or** = **or** <)

21. 13 cm _____ 13 m *(Port Said 25)* (> **or** = **or** <)

22. The tally marks | | | | means _____ *(Giza - Omrania 25)* (4 **or** 5 **or** 6 **or** 7)

23. The tally marks ~~||||~~ | | | represents the number _____ *(Alex. - East 25)*

(9 **or** 8 **or** 7 **or** 6)

---

2 Complete.

1. 200 cm = ———— m

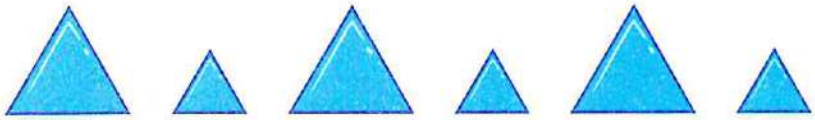
2. 3 cm + 2 cm = ———— mm

3. 97 , 87 , 77 , 67, _____ , _____ (in the same pattern)

4. 110 , 113 , 116 , 119 , _____ , _____ (in the same pattern)

5. 10 , 14 , 18 , 22 , _____ , _____ (in the same pattern)

6. 120 , 130 , 140 , _____ (in the same pattern) *(Cairo - Shobra 25)*

7.  _____ _____

(in the same pattern)

8. Complete the patterns : *(Cairo - El-Sayda Zainab 25)*

   a. ○ △ , ○ △ , _____

   b. 50 , 40 , 30 , _____

   c. 56 , 54 , 52 , _____

9. The rule of the pattern : 15 , 13 , 11 , ... is _____ *(El-Monofia - Tala 25)*

3 **Measure the length of each pencil. Arrange the lengths from the shortest to the longest.**

a. _____ mm

b. _____ mm

c. _____ mm

d. _____ mm

e. _____ mm

The order is : _____ , _____ , _____ , _____ , _____

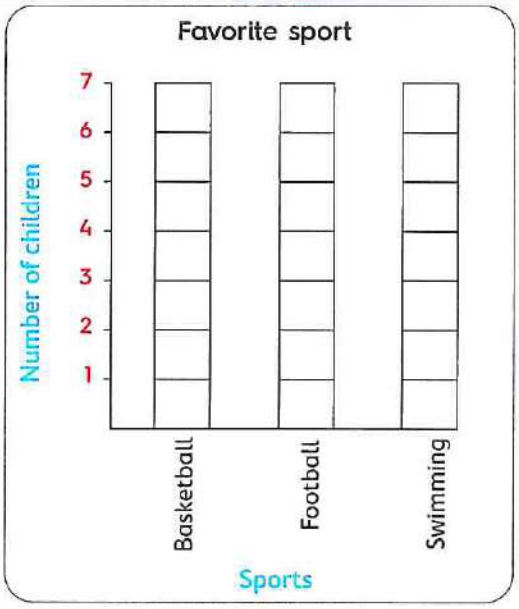
4 **Count and answer the questions.** *(El Dakahlia 25)*

1. How many Heads ? _____
2. How many Tails ? _____
3. How many in All ? _____

Heads	Tails
||||	卌 |||

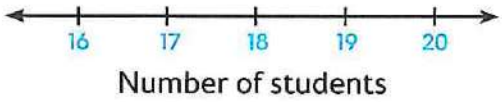
5 **Count the tallies , write the total , then color the graph.** *(Kafr El-Sheikh 25)*

Favorite Sport		
Sport	Tally	Number
Basketball	|||	_____
Football	卌	_____
Swimming	卌 |	_____



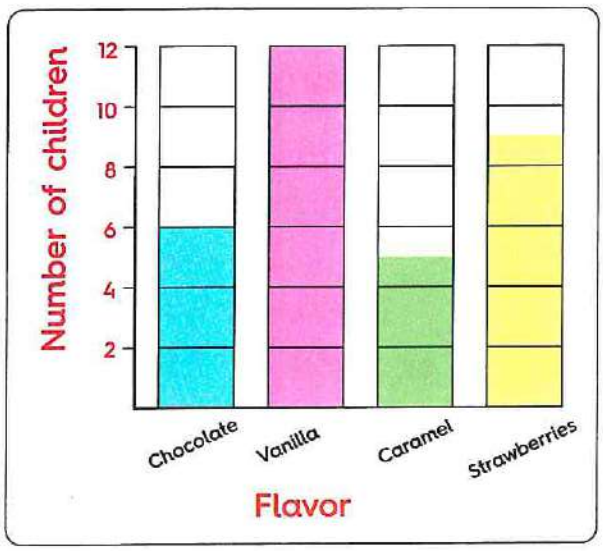
6 **Use the table to draw a line plot.** *(Qena 25)*

Marks	Number of students
16	2
17	1
18	3
19	5
20	4



Key: Each X = 1 student

7 **Use the following bar graph to complete the tally table, then answer the following questions.**



Favorite ice cream flavor

Flavor	Tally
Chocolate	
Vanilla	
Caramel	
Strawberries	

Choose the correct answer.

1. There are _____ children made this survey. (20 or 30 or 32 or 50)
2. There are _____ children prefer vanilla ice cream flavor. (6 or 12 or 5 or 9)
3. There are 9 children prefer _____ ice cream flavor. (chocolate or vanilla or caramel or strawberries)
4. The smallest number of children prefer _____ ice cream flavor. (chocolate or vanilla or caramel or strawberries)

---

8 **The opposite line plot shows the number of the books read by children in a month. Answer the following:** *(El-Gharbia 25)*

1. How many children read 6 books ?

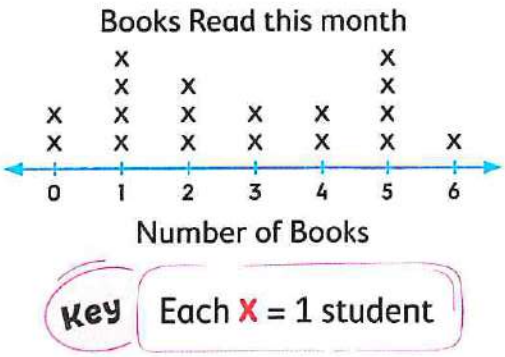
   _____

2. How many children did not read any book ?

   _____

3. How many children read more than 3 books.

   _____



General Revision | on Chapter 2

1 Choose the correct answer.

1. 9,753 = ———— + 700 + 50 + 3 *(El-Monofia - Menouf 25)* (9,000 **or** 900 **or** 9)
2. 65,429 = 60,000 + 5,000 + ———— + 20 + 9 *(El-Gharbia 25)*
(4 **or** 40 **or** 400 **or** 4,000)
3. 9,000 + 800 + 30 + 5 = ———— *(Aswan - Kom Ombo 25)*
(9,853 **or** 9,385 **or** 9,835)
4. 7,000 + 500 + 2 = ———— *(Suez 25)* (752 **or** 7,250 **or** 7,502 **or** 7,520)
5. 60,000 + 500 + 40 + 3 = ———— *(El-Dakahlia 25)*
(6,543 **or** 60,543 **or** 65,043 **or** 65,430)
6. 5 ones + 3 tens + 8 thousands = ———— *(El-Menia - Beni Mazar 25)*
(5,038 **or** 835 **or** 8,035)
7. Sixty-two thousand , three hundred nineteen in standard form is ————
(Cairo - El-Sayeda Zeinab 25) (62,319 **or** 319 **or** 62,000 **or** 62,900)
8. Two hundred thousand , five hundred in digits is ———— *(Souhag - Akhmeem 25)*
(20,500 **or** 2,500 **or** 20,050 **or** 200,500)
9. Sixty thousand , four hundred sixty in standard form is ————
(El-Monofia - Monouf 25) (60,416 **or** 60,460 **or** 16,460)
10. 648 + 9,000 = ———— *(Giza - Omrania 25)*
(90,648 **or** 9,648 **or** 6,489 **or** 64,809)
11. 47,063 = 63 + ———— *(El Monofia - Quesna 25)* (47 **or** 470 **or** 47,000 **or** 74)
12. 534,212 = 500,000 + 212 + ———— *(El-Monofia - Tala 25)*
(34 thousands **or** 3,400 **or** 34 **or** 9,350)
13. The value of the digit 7 in the number 1,437 is ———— *(Cairo - Helwan 25)*
(70 **or** 7,000 **or** 700 **or** 7)
14. The value of the digit 4 in the number 5,430 is ———— *(Suez 25)*
(4 **or** 40 **or** 400 **or** 4,000)
15. The value of the underlined digit 1<u>9</u>,060 is ———— *(Cairo - El-Sayada Zeinb 25)*
(9,000 **or** 900 **or** 90 **or** 99)
16. The value of the digit 0 in the number 45,208 is ———— *(Souhag - Akhmeem 25)*
(1,000 **or** hundreds **or** 10 **or** 0)

17. The value of the digit 2 in the number 123,465 is _____ *(Ismailia - West El-Kantra 25)*

(200 **or** 2,000 **or** 20,000 **or** 200,000)

18. The value of the digit 9 in the number 960,341 is _____ *(El-Sharkia - Menia El Kamh 25)*

(9 **or** 90 **or** 900,000 **or** 9,000)

19. The place value of the digit 1 in the number 2,314 is _____ *(Damietta 25)*

(ones **or** tens **or** 10 **or** hundred)

20. The place value of the digit 5 in 135,421 is _____ *(Cairo - Shobra 25)*

(thousands **or** 5,000 **or** ten thousands **or** hundreds)

21. The place value of the 8 in the number 385,126 is _____ *(El-Beheira 25)*

(hundreds **or** thousands **or** ten thousands)

22. 3 thousands = _____ *(Giza - Omrania 25)* (300 **or** 30 **or** 3,000 **or** 3)

23. 46 hundreds = _____ *(Aswan - Kom Ombo 25)* (46 **or** 4,600 **or** 460)

24. 5 thousands and 2 = _____ *(El-Beheira 25)* (5,200 **or** 5,020 **or** 5,002)

25. _____ = 30 tens. *(E-Monofia - Tala 25)* (30 **or** 300 **or** 30,000 **or** 3,010)

26. 800 tens = _____ thousands. *(El-Sharkia - Menia El Kamh 25)*

(8 **or** 80 **or** 800 **or** 8,000)

27. 360 tens = _____ hundreds. *(Cairo - Maadi 25)*

(360,000 **or** 3,600 **or** 36,000 **or** 36)

28. 400 hundreds = _____ thousands. *(Cairo - Shobra 25)*

(400 **or** 4,000 **or** 40 **or** 40,000)

29. 3 hundreds _____ 30 tens. *(Qena 25)* (> **or** = **or** < **or** otherwise)

30. 13,764 _____ 3,000 + 10,000 + 60 + 700 *(Cairo - El Waily 25)*

(> **or** = **or** < **or** otherwise)

31. 75 hundred _____ seven thousands , five hundreds. *(El-Menia - Beni Mazar 25)*

(> **or** < **or** =)

32. The greatest 5-different digit number is _____ *(Giza - 6th October 25)*

(99,999 **or** 98,765 **or** 56,789 **or** 10,234)

33. The number just before the number 4,256 is _____ *(Ismailia - West El-Kantra 25)*

(4,254 **or** 4,255 **or** 4,257 **or** 4,258)

34. The greatest number formed from 2 , 0 , 7 , 9 , 4 is _____ *(El-Beheira 25)*

(79,420 **or** 97,420 **or** 97,402)

35. The smallest number formed from the digit 3 , 8 , 0 , 7 and 9 is _____

(Cairo - El Waily 25) (70,839 **or** 30,897 **or** 30,789 **or** 30,987)

36. 3 columns in each column 4 elements = _____ *(Port Said 25)*

(7×3 **or** 7×4 **or** 3×4 **or** 12×3)

37. The array which has 8 columns and 3 rows has _____ elements.

(El-Menia - Beni Mazar 25) (24 **or** 18 **or** 36)

38. The array with 7 rows and 4 columns, the total number of elements is _____ elements. *(Alex. - Montaza 25)* (28 **or** 14 **or** 11 **or** 16)

39. The array 4×9 has _____ element. *(Cairo - Helwan 25)*

(7 **or** 4 **or** 36 **or** 14)

40. 4 groups of 6 = _____ *(Cairo - El Waily 25)*

($4 - 6$ **or** $4 + 6$ **or** 4×6 **or** $4 + 4 + 4 + 4$)

41. $6 + 6 + 6 = 3 \times$ _____ *(El-Dakhlia 25)* (3 **or** 6 **or** 9 **or** 18)

42. $6 + 6 + 6 = 6 \times$ _____ *(Qena 25)* (1 **or** 2 **or** 3 **or** 4)

43. $7 + 7 + 7 + 7 + 7 + 7 =$ _____ $\times 7$ *(El-Beheira 25)* (6 **or** 4 **or** 5 **or** 12)

44. $4 + 4 + 4 + 4 =$ _____ *(Cairo - East Nasr City 25)* (3×4 **or** 4×4 **or** 25 **or** 30)

45. $5 \times 8 = 8 \times$ _____ *(Alex. - East 25)* (5 **or** 8 **or** 7 **or** 6)

46. $9 \times 7 =$ _____ $\times 9$ *(Damietta 25)* (9 **or** 7 **or** 63 **or** 2)

2 Complete.

1. 500 + 40 + 1,000 + 9 = _____

2. 2 + 30 + 400 + 5,000 + 70,000 in standard form = _____ *(Port Said 25)*

3. The number 65,201 in expanded form is :

   65,201 = _____ + _____ + _____ + _____ *(Giza - 6th October 25)*

4. Two thousand , seven hundred five = _____ (in standard form)

5. 8 thousands , 4 tens and 3 ones in standard form is _____ *(El-Kalyoubia 25)*

6. 9 thousands , 125 in standard form is _____ *(Suez 25)*

7. Write the number 8,562 in the following forms : *(Assuit 25)*

   Expanded form : _____ + _____ + _____ + _____

   Word form : _____

8. The value of the digit 0 in the number 960,341 is _____

9. If the place value of the digit 7 is ten thousands , then the value of the digit 7 is _____ *(Cairo - Maadi 25)*

10. From the digits : 5 , 2 , 1 , 4 , 3 : *(Aswan - Kom Ombo 25)*

a. The greatest number is _____

b. The smallest number is _____

11. The greatest number formed from the digits : 7 , 2 , 0 , 9 , 1 is _____

(Alex. - Montaza 25)

12. From the opposite array : *(Qena 25)*

a. Name of array : _____ by _____

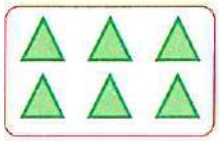
b. Total number of squares : _____

13. In the opposite array : *(El-Menia - Samalout 25)*

a. Number of rows = _____

b. Number of colums = _____

c. Total number of items = _____



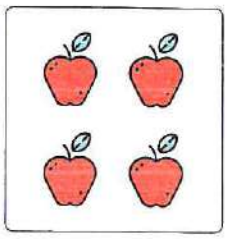
14. _____ × 7 = 7 + 7 + 7 = _____

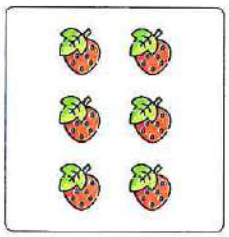
---

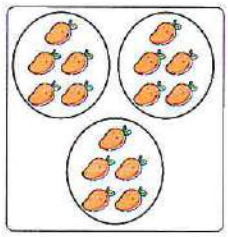
3 Compare using "> , = or <".

1. 3,467 ◯ 3,164
2. 300 thousands ◯ 3,000 hundreds
3. 132,045 ◯ 93,245
4. 548,176 ◯ 548,173
5. One hundred thousand ◯ 99,999
6. 275 thousands and 6 ◯ 275,600
7. 25,600 tens ◯ 256 thousands
8. 381,205 ◯ 83 thousands and 205

4 **Write a multiplication sentence for each.** *(El-Gharbia 25)*

1. 

2. 

3. 

_____ _____ _____

5 **Draw an array according to the multiplication problem : 3 × 4 , then find the product.** *(Alex. - East 25)*

_____

_____

6 **Write the numbers in order from least to greatest.**

1. 2,345 | 1,672 | 5,437 | 3,265 *(Aswan - Kom Ombo 25)*

The order is : _____ , _____ , _____ , _____

2. 65,621 | 45,714 | 3,765 | 888,563 *(El-Monofia - Menouf 25)*

The order is : _____ , _____ , _____ , _____

3. 11,012 | 7,234 | 12,011 | 7,235 | 109,001

(El-Sharkia - Menia El-Kamh 25)

The order is : _____ , _____ , _____ , _____ , _____

7 **Write the numbers in order from greatest to least.**

1. 54,631 | 3,433 | 2,154 | 12,464 *(Cairo - Helwan 25)*

The order is : _____ , _____ , _____ , _____

2. 170,072 | 52,791 | 203,415 | 304,109 *(Qena 25)*

The order is : _____ , _____ , _____ , _____

3. Seventeen thousands | 17,003 | 1,700 | 9,000 *(Alex. - Montaza 25)*

The order is : _____ , _____ , _____ , _____

General Revision | on Chapter 3

1 Choose the correct answer.

1. $2 \times 7 =$ ———— *(El-Monofia - Bagour 25)* (14 **or** 12 **or** 9)
2. $6 \times 3 =$ ———— *(Giza - 6th October 25)* (3 **or** 2 **or** 18 **or** 10)
3. $7 \times 8 =$ ———— *(El-Kalyoubia 25)* (8×5 **or** 8×7 **or** 7×9 **or** 7×7)
4. $9 \times 9 =$ ———— *(Giza - 6th October 25)* (18 **or** 81 **or** 27 **or** 9)
5. $9 \times 7 =$ ———— *(El-Kalyoubia 25)* (83 **or** 63 **or** 72 **or** 54)
6. $5 \times$ ———— $= 40$ *(El-Menia - Samalout 25)* (6 **or** 8 **or** 40 **or** 10)
7. $4 \times$ ———— $= 48$ *(Cairo - Helwan 25)* (8 **or** 9 **or** 12 **or** 6)
8. ———— is a multiple of 2 *(Giza - 6th October 25)* (13 **or** 15 **or** 20 **or** 7)
9. The number ———— is a multiple of 3 *(Alex. - Montaza 25)* (2 **or** 4 **or** 6 **or** 8)
10. ———— is a multiple of 4 *(El-Sharkia - Menia El-Kamh 25)* (3 **or** 16 **or** 9 **or** 25)
11. ———— is a multiple of 6 *(Damietta 25)* (12 **or** 1 **or** 16 **or** 26)
12. ———— is a multiple of 7 *(El-Monofia - Ashmoun 25)* (17 **or** 14 **or** 27 **or** 37)
13. ———— is a multiple of 10 *(Giza - 6th October 25)* (15 **or** 25 **or** 30 **or** 35)
14. The number 15 is a multiple of the number ————
    (Cairo - Maadi 25) (3 **or** 8 **or** 10 **or** 6)
15. The number ———— is a common multiple of 2 and 3
    (El-Monofia - Quesna 25) (12 **or** 9 **or** 4 **or** 10)
16. The number ———— is a common multiple of the two numbers 5 and 10
    (Alex. - East 25) (25 **or** 20 **or** 15 **or** 13)
17. The common multiple of 3 and 9 from the following is ————
    (El-Monofia - Tala 25) (12 **or** 16 **or** 27 **or** 19)
18. A bag contains 3 oranges , the number of oranges in 5 bags is equal to ———— *(Ismailia - West El-Kantra 25)* (15 **or** 12 **or** 9 **or** 6)
19. ———— is a factor of the number 15
    (El-Monofia - Ashmoun 25) (3 **or** 6 **or** 7 **or** 8)
20. The number ———— is a factor of the number 21
    (Kafr El-Sheikh 25) (2 **or** 3 **or** 4 **or** 5)
21. The two numbers 3 and 5 are factors of the number ————
    (Cairo - Maadi 25) (8 **or** 15 **or** 18 **or** 9)

22. The numbers 1 , 2 , 5 , 10 are all factors of the number ————

(Assuit 25) (2 **or** 5 **or** 10 **or** 18)

23. If the numbers 1 , 2 , 3 , 4 , 6 , 12 are all factors of a number , then this number is ———— *(Ismailia - West El-Kantra 25)* (2 **or** 4 **or** 6 **or** 12)

24. The factors of 6 are ————

(Cairo - Helwan 25) (2 , 3 **or** 1 , 2 , 3 , 30 **or** 2 , 3 , 6 **or** 1 , 2 , 3 , 6)

25. Quarter of an hour = ———— minutes.

(El-Menia - Bani Mazar 25) (30 **or** 600 **or** 15)

26. Half of an hour = ———— minutes. *(Suez 25)* (15 **or** 30 **or** 45 **or** 60)

27. The time that appears on the opposite clock is ————

(Assuit 25) (3 : 30 **or** 3 : 20 **or** 4 : 15 **or** 4 : 30)

28. The time that appears on the opposite clock is ————

(Alex. - El-Gomrok 25) (half past nine **or** half past six **or** nine **or** six)

29. The number which the minutes hand points to when 20 minutes have passed is ———— *(El-Monofia - Barket El-Sabe 25)* (4 **or** 5 **or** 6 **or** 7)

30. 24 ÷ 4 = ———— *(Cairo - East Nasr City 25)* (9 **or** 6 **or** 3 **or** 7)

31. 45 ÷ 5 = ———— *(Ismailia - West El-Kantra 25)* (6 **or** 8 **or** 9 **or** 10)

32. 36 ÷ 6 = ———— *(Cairo - El-Sayada Zeinab 25)* (6 **or** 5 **or** 4 **or** 3)

33. 42 ÷ 7 = ———— *(Damietta 25)* (7 **or** 49 **or** 6 **or** 35)

34. 56 ÷ 8 = ———— *(El-Sharkia - Menia El-Kamh 25)* (5 **or** 8 **or** 7 **or** 9)

35. 36 ÷ 9 = ———— *(Cairo - East Nasr City 25)* (9 **or** 4 **or** 3 **or** 5)

36. 28 ÷ ———— = 7 *(El-Monofia - Bagour 25)* (3 **or** 4 **or** 5)

37. 40 ÷ ———— = 5 *(Cairo - Shobra 25)* (8 **or** 200 **or** 9 **or** 10)

38. 49 ÷ ———— = 7 *(El-Beheira 25)* (6 **or** 7 **or** 8)

39. ———— ÷ 3 = 3 *(El-Dakahlia 25)* (1 **or** 3 **or** 6 **or** 9)

40. 3 × 6 = 2 × ———— *(El-Gharbia 25)* (3 **or** 6 **or** 2 **or** 9)

41. $36 \div 9 = 2 \times$ ———— *(Alex. - East 25)* (5 or 4 or 3 or 2)

42. 5×3 ———— 2×8 *(Qena 25)* (> or = or < or otherwise)

43. 6×3 ———— 2×9 *(El-Beheira 25)* (< or > or = or otherwise)

44. 3×8 ———— 7×6 *(Cairo - Helwan 25)* (< or > or = or otherwise)

45. $6 \div 2$ ———— $12 \div 4$ *(Giza - 6th October 25)* (> or < or = or otherwise)

46. 3×3 ———— $27 \div 3$ *(El-Menia - Samalout 25)* (> or < or = or otherwise)

47. If 15 coins is divided among 5 money boxes , then each box has ———— coins.

(El-Monofia - Tala 25) (7 or 3 or 197 or 70)

48. If a teacher has 50 crayons wants to divided them among 5 students , then the number of crayons for each student is ————

(Assuit 25) (8 or 9 or 10 or 45)

49. If $3 \times 7 = 21$, then $21 \div 7 =$ ———— *(El-Gharbia 25)* (3 or 21 or 7 or 24)

2 Find each result.

1. 9 × 3 ____
2. 10 ÷ 2 ____
3. 15 ÷ 5 ____
4. 2 × 4 ____
5. 8 ÷ 1 ____
6. 0 × 3 ____
7. 8 × 3 ____
8. 5 × 5 ____
9. 8 ÷ 2 ____
10. 18 ÷ 2 ____
11. 32 ÷ 4 ____
12. 40 ÷ 5 ____
13. 14 ÷ 2 ____
14. 9 × 7 ____
15. 4 × 5 ____
16. 10 × 9 ____
17. 8 × 9 ____
18. 1 × 6 ____

3 Put "> , = or <".

1.	4×2	◯	1×10	2.	4×7	◯	5×6
3.	3×9	◯	5×5	4.	$2 + 2$	◯	2×2
5.	2×9	◯	$6 + 6 + 6$	6.	4×0	◯	$4 + 0$
7.	10×4	◯	3×7	8.	$5 + 1$	◯	5×1

4 Complete the following.

1. Write five multiples of the number 2 that are less than 13 *(Cairo - El-Waily 25)*

   _____ , _____ , _____ , _____ , _____

2. Multiples of the number 3 included between 5 and 10 are _____

   (El-Menia - Bani Mazar 25)

3. Write three common multiples of the numbers 2 and 5 *(Souhag - Akhmeem 25)*

   _____ , _____ , _____

4. The factors of 8 are : _____ , _____ , _____ , _____ *(EL-Kalyoubia 25)*
5. Write the factors of 9 : _____ , _____ , _____ *(EL-Menia - Samalout 25)*
6. If the minutes hand points to 4 , it means _____ minutes have passed.

   (Cairo - El-Mokatam 25)

7. $30 \div 5 =$ _____ *(Cairo - El-Mokatam 25)*

5 Answer the following.

1. Malek runs 3 miles each day. How many miles does he run in 7 days ?

   (Cairo - East Nasr City 25)

   _____

2. A box contain 5 pencils. How many pencils in 8 boxes ? *(Giza - Omrania 25)*

   Pencils in 8 boxes = _____

3. There are 5 apples in a box. How many apples are there in 4 boxes ? *(El-Beheira 25)*

   Number of apples = _____

4. There are 8 notebooks in each bag. How many notebooks are there in 3 bags ? *(Damietta 25)*

The number of notebooks = _____ = _____

5. A family uses 3 bags of sugar per week. How many bags will they use in 4 weeks ? *(El-Menia - Samalout 25)*

The number of bags = _____ = _____ bags.

6. Ahmed has 20 apples and wants to put them equally in 4 bags , how many apples are there in each bag ? *(El-Beheira 25)*

The number of apples in each bag = _____

7. There are 63 fish , we want to divide them among 7 tanks equally , how many fish in each tank ? *(El-Dakahlia 25)*

_____

8. Lamar bought 30 toys and she distributed them equally among 6 children What is the share of each child ? *(El-Gharbia 25)*

_____

9. Salma bought 5 pens , if the price of the pens is 35 pounds. Find the price of each pen ? *(Kafr El-Sheikh 25)*

The price of each pen = _____ pounds.

10. Emad has a library consisting of 4 shelves and he wants to distribute 32 books equally among these shelves , how many books are on each shelf ?

Number of books on each shelf = _____ books *(Alex. - Montaza 25)*

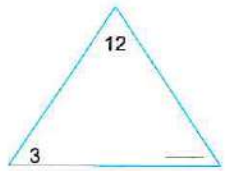
11. Find the missing factor in the triangle , then complete : *(Giza - 6th October 25)*

3 × _____ = 12

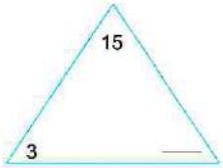
_____ × 3 = 12

12 ÷ 3 = _____

12 ÷ _____ = 3



12. Find the missing factor in the triangle , then write the four sentences that shows the fact family ? *(Kafr-El-Sheikh 25)*



_____

_____

_____

_____

13. Write the pairs of factors for the number 18 : *(Cairo -El-Sayada Zeinab 25)*

_____ × _____ _____ × _____

_____ × _____ _____ × _____

_____ × _____ _____ × _____

14. Complete the fact family for the set of numbers 8 , 9 and 72 *(El-Beheira 25)*

_____ × _____ = _____ _____ ÷ _____ = _____

_____ × _____ = _____ _____ ÷ _____ = _____

15. The time is _____ : _____

It is _____

(Giza - Omrania 25)

16. Write the time shown on the clock.

The time is _____ : _____

(El-Gharbia 25)

17. Draw the clock hands and write the time ? 07 : 15

It is _____

(Qena 25)

18. Draw the hour hand and the minute hand that determine. 3 : 45

(Souhag - Akhmeem 25)

19. Ahmed went to the cinema at 6 : 00 , he returned home at 8 : 00 *(Giza - 6th October 25)*

What time did he take ?

_____

20. Hossam started studying at 8 : 00 and he finished at 9 : 15 *(Cairo - Maadi 25)*

How many minutes did Hossam spend of studying ?

_____

21. Mona started doing homework at 3 : 00. If it took her 45 minutes to do the homework , what was the time in which Mona finished doing the homework ?

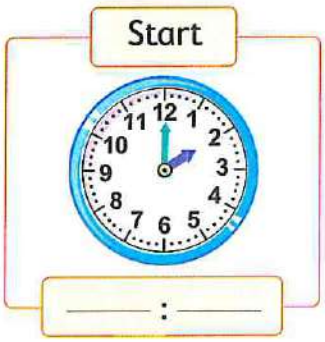
(Ismailia - West El-Kantra 25)

_____

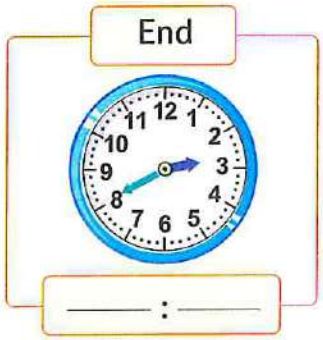
_____

22. Calculate the elapsed time between the two clocks : *(Cairo - El-Waily 25)*

1.



2.



Elapsed time : _____

General Revision | on Chapter 4

1 Choose the correct answer.

1. The polygon is called a ———— *(Giza - Omrania 25)*

(square **or** triangle **or** rectangle **or** pentagon)

2. The name of the opposite shape is a ———— *(El-Menia - Beni Mazar 25)*

(square **or** rectangle **or** rhombus **or** pentagon)

3. The polygon is called a ———— *(Giza - 6th October 25)*

(square **or** triangle **or** rectangle **or** pentagon)

4. This polygon is a ———— *(Cairo - East Nasr City 25)*

(square **or** rhombus **or** octagon **or** pentagon)

5. The name of the opposite figure is a ———— *(Qena 25)*

(square **or** rectangle **or** parallelogram **or** trapezium)

6. The name of the opposite figureis a ———— *(El-Monofia – Menof 25)*

(trapezium **or** rectangle **or** pentagon)

7. Which of the following is not a polygon ? *(Kafr El-Sheikh 25)*

(a square **or** a circle **or** a hexagon **or** a pentagon)

8. Which of the following does not represent a parallelogram ? *(El-Kalyoubia 25)*

(a square **or** a trapezium **or** a rhombus **or** a rectangle)

9. The quadrilateral is a polygon which has ———— sides. *(El-Menia - Samalout 25)*

(1 **or** 4 **or** 5 **or** 7)

10. The number of sides in the triangle is ———— sides. *(Cairo - Helwan 25)*

(4 **or** 5 **or** 3 **or** 6)

11. The square has ———— equal sides. *(Qena 25)* (2 **or** 3 **or** 4 **or** 5)

12. The pentagon is a polygon which has ———— sides. *(El-Dakahlia 25)*

(3 **or** 4 **or** 5 **or** 6)

13. The number of sides of the hexagon is ———— *(Damietta 25)*

(7 **or** 4 **or** 5 **or** 6)

14. The heptagon has ———— sides. *(Cairo - Shobra 25)* (7 **or** 6 **or** 5 **or** 8)

15. The number of vertices of the triangle is ———— vertices. *(Alex. - East 25)*

(3 **or** 4 **or** 5 **or** 6)

16. The ———— has 4 similar vertices. *(El-Monofia - Quesna 25)*

(trapezium **or** square **or** triangle **or** parallelogram)

17. The number of vertices of the rectangle = ———— vertices. *(Cairo - Helwan 25)*

(3 **or** 4 **or** 2 **or** 1)

18. The hexagon has ———— vertices. *(Kafr-El-Sheikh 25)* (4 **or** 5 **or** 6 **or** 7)

19. The square has ———— pair(s) of parallel side. *(Cairo - Shobra 25)*

(4 **or** 2 **or** 1 **or** 0)

20. The trapezium has exactly ———— pair(s) of parallel sides. *(El-Beheira 25)*

(1 **or** 2 **or** 3)

21. The quadrilateral that has two pairs of parallel sides is a ————

(El-Dakahlia 25) (parallelogram **or** triangle **or** circle **or** trapezium)

22. The quadrilateral that has only one pair of parallel sides is a ————

(Alex. - Montaza 25) (rectangle **or** square **or** rhombus **or** trapezium)

23. The polygon which has 3 sides and 3 vertices is called a ————

(Alex. - El-Gomrok 25) (circle **or** square **or** triangle **or** rhombus)

24. The polygon in which all its sides are equal in length is a ————

(El-Monofia - Ashmon 25) (rhombus **or** rectangle **or** parallelogram **or** trapezium)

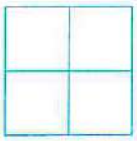
25. The quadrilateral that has 4 equal sides in length and 4 simlar vertices is a ———— *(Assuit 25)* (triangle **or** square **or** rectangle **or** pentagon)

26. The quadrilateral which has 4 equal sides in length but its vertices are not similar is a ———— *(Cairo - El-Waily 25)*

(rectangle **or** square **or** rhombus **or** parallelogram)

27. The area of the opposite figure *(El-Menia - Samalout 25)*

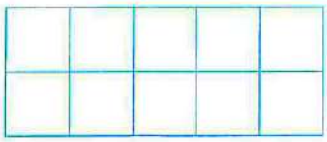
is ————



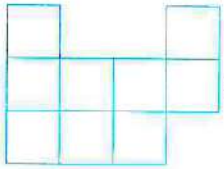
(2 **or** 8 **or** 6 **or** 4)

28. The area of the opposite figure *(Cairo - Shobra 25)*

is ————



(14 **or** 7 **or** 10 **or** 5)

29. The area of the figure  equals _____ *(El-Kalyoubia 25)*

(6 or 7 or 8 or 9)

30. $7 \times 7 = (7 \times$ _____ $) + (7 \times 5)$ *(Ismailia - West El-Kantra 25)* (5 or 3 or 2 or 1)

31. $(3 \times 9) = (3 \times 4) + (3 \times$ _____ $)$ *(El-Monofia - Menof 25)* (4 or 5 or 2)

32. $(9 \times 10) = (9 \times 6) + (9 \times$ _____ $)$ *(El-Dakahlia 25)* (4 or 6 or 9 or 10)

33. $8 \times 11 = (8 \times 6) + (8 \times$ _____ $)$ *(Souhag - Akhmem 25)* (5 or 6 or 17 or 8)

34. $3 \times 12 = (3 \times 9) + (3 \times$ _____ $)$ *(El-Sharkia - Menia El-Kamh 25)*

(12 or 3 or 7 or 9)

35. $7 \times 13 = (7 \times$ _____ $) + (7 \times 7)$ *(Cairo - El-Waily 25)* (10 or 8 or 6 or 5)

36. $6 \times 17 = (6 \times 10) + ($ _____ $\times$ _____ $)$ *(Cairo - East Nasr City 25)*

((5×6) or (6×7) or (5×1) or (10×5))

37. $(6 \times 2) + (6 \times 3) = 6 \times$ _____ *(Qena 25)* (5 or 6 or 7 or 8)

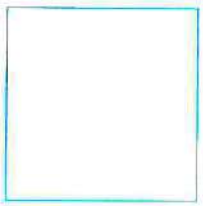
38. $4 \times$ _____ $= (4 \times 7) + (4 \times 5)$ *(Cairo - Maadi 25)* (4 or 9 or 11 or 12)

39. $(6 \times 2) + (6 \times 5) =$ _____ *(Alex. - East 25)* (6×2 or 6×5 or 6×6 or 6×7)

40. $5 \times 10 = [5 \times \triangle] + [5 \times \bigcirc]$, then $\triangle + \bigcirc =$ _____ *(Kafr El-Sheikh 25)*

(1 or 5 or 10 or 20)

2 Name each figure and write the missing numbers.



1. Figure name : _____

   Number of vertices : _____

   Number of pairs of parallel sides : _____ *(El-Dakahlia 25)*

2. Name : _____

   Number of pairs of equal sides : _____

   Number of pairs of parallel sides : _____

   Number of vertices : _____

3. Name : _____

Number of pairs of equal sides : _____

Number of pairs of parallel sides : _____

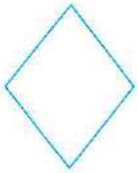
Number of vertices : _____

4. Name : _____

Number of equal sides : _____

Number of pairs of parallel sides : _____

Number of vertices : _____

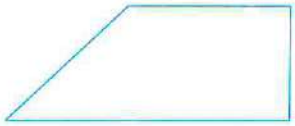


5. Name : _____

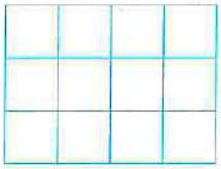
Number of equal sides : _____

Number of pairs of parallel sides : _____

Number of vertices : _____



3 Complete

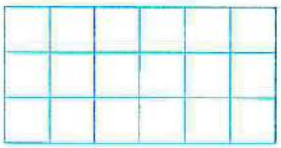
1. The two straight lines are _____
2. The quadrilateral is a polygon which has _____ vertices.
3. The parallelogram is a quadrilateral which has _____ pairs of equal sides.
4. The polygon which has 8 vertices is called _____
5. The area of the opposite figure  is _____
6. $6 \times 7 = (6 \times 4) + (6 \times$ _____ $)$ *(Cairo – El-Mokatam 25)*
7. $9 \times 13 = (9 \times 10) + (9 \times$ _____ $)$
8. $(5 \times 8) + (5 \times 7) = 5 \times$ _____
9. _____ $\times$ _____ $= (7 \times 10) + (7 \times 5)$

4 Calculate the area of each of the following.

1.

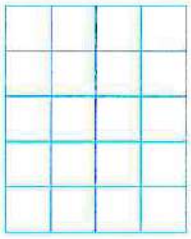
Area = ___ × ___
= ___ square units

2.



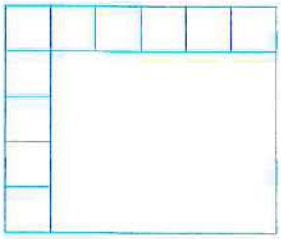
Area = ___ × ___
= ___ square units

3.



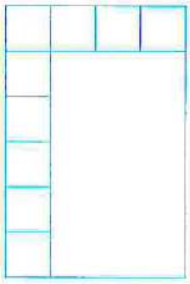
Area = ___ × ___
= ___ square units

4.



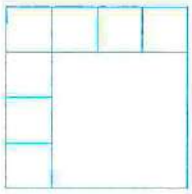
Area = ___ × ___
= ___ square units

5.



Area = ___ × ___
= ___ square units

6.



Area = ___ × ___
= ___ square units

5 Answer the following questions.

1. What is the name of the polygon that has 3 sides and 3 vertices ?

(El-Monofia - Bagour 25)

_____

2. Write the names of polygons , each with 4 similar vertices. *(Ismailia - West El-Kantra 25)*

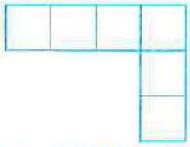
_____

3. By using the number of rows and the number of columns , determine the area of this shape.

The area = _____ × _____ = _____ square units.

(Damietta 25)

4. Determine the area of the shape.



The area = _____ square units.

(Cairo - El-Waily 25)

5. Find the result of $(9 \times 3) + (9 \times 2)$ *(Damietta 25)*

_____

_____

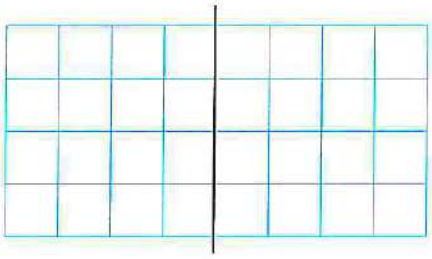
6 **The following arrays is divided into two arrays.**

Write the multiplication factors for each part. *(Ismailia – West El-Kantra 25)*

1. _____

_____

_____



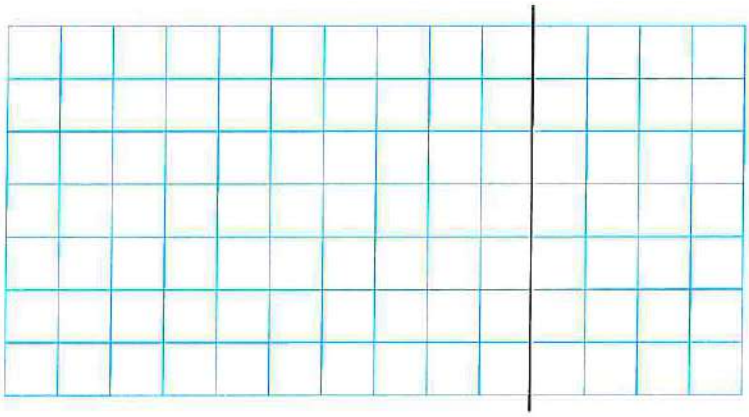
2. _____

_____

_____

_____

_____



General Revision | on Chapter 5

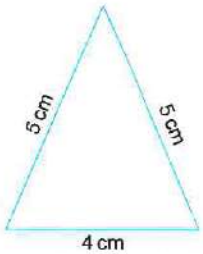
1 Choose the correct answer.

1. The perimeter of the square whose side length 6 cm is ———— cm.
(Cairo - Helwan 25) (32 or 24 or 12 or 16)

2. The perimeter of the rectangle whose length is 8 cm and width is 2 cm is ———— cm. *(Qena 25)* (10 or 20 or 21 or 40)

3. Hoda is sewing the edges of a square baby blanket of side length 20 cm. The length of the edges is ———— cm *(Ismailia - West El-Kantra 25)* (100 or 80 or 40 or 60)

4. The perimeter of the opposite triangle is ———— cm.



(El-Monofia - Tala 25) (16 or 14 or 10 or 18)

5. The area of the square of side length 5 cm is ———— square centimeters.
(Assuit 25) (10 or 20 or 25 or 50)

6. The area of a rectangle with 5 cm long and 2 cm wide equals ———— square centimeters. *(Suez 25)* (2 or 5 or 7 or 10)

7. A rug is 3 meters long and 8 meters wide. The area of the rug ———— square meters.
(Cairo - El-Sayada Zeinab 25) (7 or 6 or 5 or 24)

8. The area of a square whose side length 6 cm = ———— square centimeters.
(Giza - 6th October 25) ($6 + 6$ or 6×6 or $6 - 6$ or $6 \div 6$)

9. Rami planted 2 areas with flowers , the area of one of them is 3×6 and the other is 2×9 , the sum of the two areas = ———— square units.
(Cairo - El-Waily 25) (36 or 18 or 9 or 27)

10. $3 \times 20 =$ ———— *(El-Monofia - Bagour 25)* (6 or 60 or 50)

11. $60 \times 5 =$ ———— *(El-Monofia - Tala 25)* (300 or 310 or 3000 or 603)

12. $4 \times 80 =$ ———— *(Cairo - East Nasr City 25)* (48 or 320 or 230 or 160)

13. $3 \times 70 =$ ———— $\times 10$ *(Damietta 25)* (21 or 370 or 210 or 2,100)

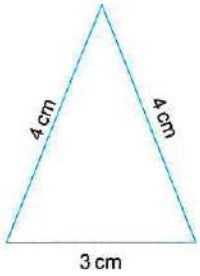
14. $50 \times 30 =$ ———— tens *(El-Dakahlia 25)* (15 or 150 or 1500 or 15,000)

15. $5 \times 40 = ($———— $\times 4) \times 10$ *(Alex. - El-Gomrok 25)* (2 or 3 or 4 or 5)

16. $8 \times 30 = (8 \times$ ————$) \times 10$ *(El-Kalyoubia 25)* (3 or 30 or 8 or 80)

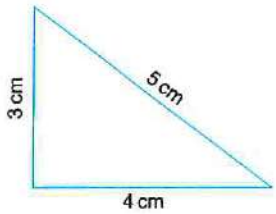
2 Answer each of the following.

1. The name is a ————
   Number of sides = ————
   The perimeter = ———— cm.



(Giza - 6th October 25)

2. Find the perimeter of the opposite figure.
   The perimeter = ———— + ———— + ————
   = ———— cm.

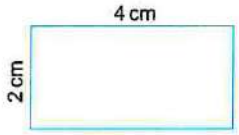


(Aswan - Kom Ombo 25)

3. Find the perimeter of the opposite figure.
   The perimeter = ———————————— cm.

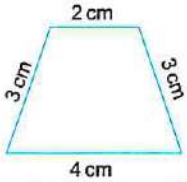
(Cairo - East Nasr City 25)

4. Find the perimeter of the opposite rectangle.
   The perimeter = ————————————



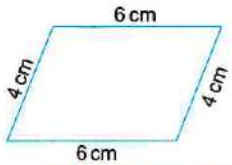
(El-Beheira 25)

5. Find the perimeter of the opposite figure.
   The perimeter = ————————————



(Alex. - East 25)

6. Find the perimeter of the opposite figure.
   The perimeter = ———————————— cm.



(El-Kalyoubia 25)

7. A square with side length 5 cm , find its perimeter ? *(El-Monofia - Quesna 25)*

———————————————————————————————

8. A rectangle with two dimensions 6 cm and 4 cm
   Calculate its perimeter. *(Cairo - Maddi 25)*

———————————————————————————————

9. A room with 3 meters long and 2 meters wide. Calculate its perimeter.

(El-Monofia - Ashmoun 25)

_____

10. Kholoud is sewing a border on a square blanket , the length of the blanket is 15 cm and the width is 15 cm. How long will be the border ? *(Alex. - El-Gomrok 25)*

_____

11. A book has length 15 cm and width 10 cm. What is the perimeter of this book ?

The perimeter = _____ = _____ cm *(El-Menia - Samalout 25)*

12. Find the area of the opposite figure :

The area = _____ square centimeter.

(Cairo - East Nasr City 25)

13. A Square shaped land in which its side length is 9 meter. Find the area ?

The area = _____ *(El-Menia - Bani Mazar 25)*

14. A rectangular garden is of dimensions 10 m and 3 m

Calculate the area of the garden. *(El-Monofia - Ashmoun 25)*

_____

15. Mahmoud is building a patio out of square tiles , he wants the length of the patio to be 8 tiles and its width to be 5 tiles from the same type. How many tiles will he use in all to build the patio ? *(Alex. - El-Gomrok 25)*

_____

16. A square carpet with a side length of 3 m , calculate its area ? *(Alex. - Montaza 25)*

Its area = _____ square meter.

17. Ibrahim bought 3 books to read , each book costs 20 pounds.

How much did Ibrahim pay ? *(Suez 25)*

_____

18. 3 × 50 = (____ × ____) × 10 = ____ × ____ = ____ *(El-Monofia - Berket El-Sabe 25)*

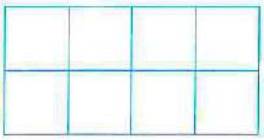
19. 6 × 40 = (____ × ____) × 10 = ____ × 10 = ____ *(Souhag - Akhmeem 25)*

20. 90 × 5 = 10 × (____ × ____) = 10 × ____ = ____ *(Cairo - Helwan 25)*

3 Calculate the perimeter and the area of each of the following figures.

1. Perimeter = _____ length units.

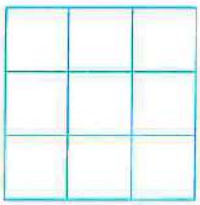
   Area = _____ square units.



(El-Gharbia 25)

2. Perimeter = _____ length units.

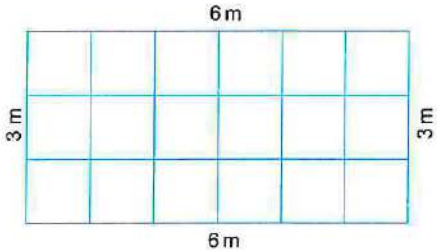
   Area = _____ square units.



(Kafr El-Sheikh 25)

3. The perimeter = _____ m.

   The area = _____ square meters.

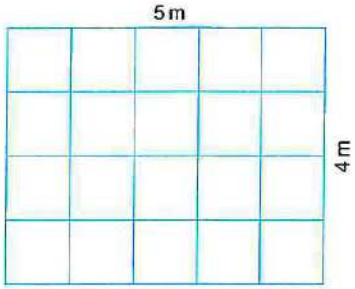


(Aswan - Kom Ombo 25)

4. A hall has a polygon shape its dimensions shown in the opposite figure :

   Its perimeter = _____ m.

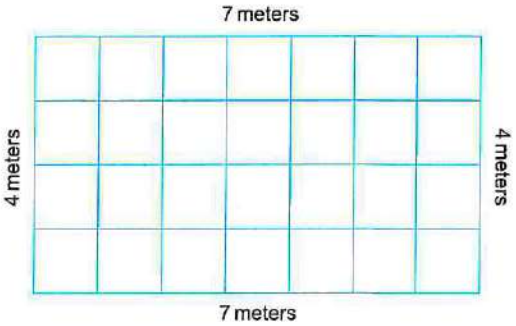
   Its area = _____ square meters.



(Port Said 25)

5. Perimeter = _____ meters.

   Area = _____ square meters.

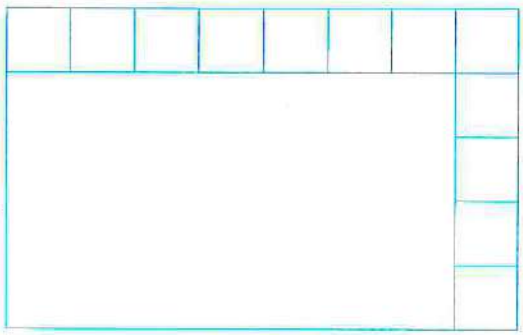


(Cairo - El-Sayada Zeinab 25)

6. The length = 8 meters
and the width = 5 meters

The perimeter = _____ m.

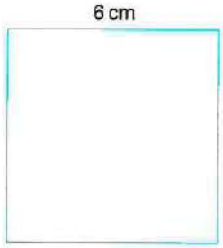
The area = _____ square meters.



(Souhag - Akhmeem 25)

7. Area = _____ square centimeters.

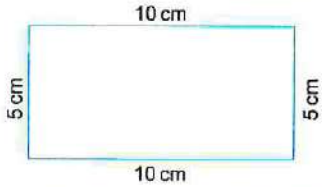
Perimeter = _____ cm.



(Qena 25)

8. The perimeter = _____ cm.

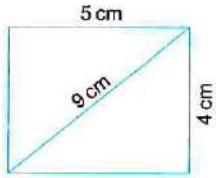
The area = _____ square meters.



(El-Monofia - Monouf 25)

9. Perimeter of the rectangle = _____ cm.

Area of the rectangle = _____ square centimeters.



(El-Monofia - Tala 25)

4 Find the product.

1. 4 x 20 = _____
2. 9 x 50 = _____
3. 8 x 30 = _____
4. 3 x 90 = _____
5. 60 x 3 = _____
6. 7 x 40 = _____
7. 50 x 7 = _____
8. 30 x 5 = _____
9. 20 x 9 = _____

General Revision | on Chapter 6

1 Choose the correct answer.

1. $6 \times 200 =$ ———— *(El-Beheira 25)* (12 **or** 120 **or** 1,200 **or** 200)
2. $300 \times 4 =$ ———— *(Giza - 6th October 25)* (12 **or** 120 **or** 1,200 **or** 15,000)
3. $400 \times 5 =$ ———— *(El-Beheira 25)* (200 **or** 2,000 **or** 20,000)
4. $4 \times 1,000 =$ ———— hundreds. *(El-Gharbia 25)* (4 **or** 40 **or** 400 **or** 4,000)
5. 8,251 ———— 8,521 *(Alex. - El-Gomrok 25)* (> **or** < **or** = **or** otherwise)
6. 12,549 ———— 15,249 *(Alex. - Montaza 25)* (> **or** < **or** =)
7. 80,146 ———— 800,146 *(El-Monofia - Quesna 25)* (< **or** > **or** = **or** otherwise)
8. 192,562 ———— 9,000 + 10,000 + 60 + 600 *(El-Sharkia - Menia El-Kamh 25)*
   (> **or** < **or** = **or** otherwise)
9. 198,521 ———— 2 hundred thousands *(El-Kalyoubia 25)* (> **or** < **or** =)
10. $249 + 67 =$ ———— (206 **or** 316 **or** 182 **or** 416)
11. $135 - 97 =$ ———— *(Cairo - Maadi 25)* (32 **or** 82 **or** 38 **or** 28)
12. $948 - 707 =$ ———— *(Cairo - East Nasr City 25)* (310 **or** 238 **or** 241 **or** 215)
13. The millimeter is a unit for measuring ———— *(Cairo - Maadi 25)*
    (the time **or** the length **or** the capacity **or** the mass)
14. ———— is a unit for measuring capacity. *(Souhag - Akhmeem 25)*
    (kg **or** hour **or** litre **or** meter)
15. The unit of measuring capacity of a medicine bottle is a ————
    (Cairo - El-Mokatam 25) (milliliter **or** liter **or** meter **or** cm)
16. The fuel capacity of a car is measured by a ———— *(El-Menia - Beni Mazar 25)*
    (liter **or** centimeter **or** millimeter)
17. Liter = ———— milliliters. *(El-Monofia - Quesna 25)* (10 **or** 100 **or** 1,000 **or** 150)
18. 4 liters = ———— mL *(Giza - Omrania 25)* (4,000 **or** 400 **or** 40 **or** 4)
19. 24 L = ———— mL *(El-Monofia - Tala 25)* (24,000 **or** 2,400 **or** 240 **or** 2004)
20. 70,000 mL = ———— L *(El-Gharbia 25)* (7 **or** 70 **or** 700 **or** 7,000)
21. ———— L = 7,000 mL *(El-Kalyoubia 25)* (7 **or** 70 **or** 700 **or** 7,000)

2 Find each product of the following.

1. $4 \times 10 =$ ———
2. $2 \times 6 =$ ———
3. $60 \times 3 =$ ———
4. $1 \times 3{,}000 =$ ———
5. $9 \times 9 =$ ———
6. $0 \times 4 =$ ———
7. $7 \times 50 =$ ———
8. $8 \times 0 =$ ———
9. $9 \times 600 =$ ———
10. $8 \times 4 =$ ———
11. $6 \times 1 =$ ———
12. $2 \times 700 =$ ———
13. $9 \times 8 =$ ———
14. $7{,}000 \times 3 =$ ———
15. $9 \times 2{,}000 =$ ———
16. $5 \times 4{,}000 =$ ———
17. $0 \times 8{,}000 =$ ———
18. $300 \times 9 =$ ———

3 Put > , < or =.

1. 4,265 ◯ 4,189
2. 38,206 ◯ 38,106
3. 669,384 ◯ 669,382
4. 905,643 ◯ 905,593
5. 12,000 ◯ 12 hundreds
6. 15 thousands ◯ 1,500 tens
7. 93,257 ◯ 309,257
8. 1,025 ◯ 1,005
9. 5,035 + 30,000 ◯ 35 + 35,000
10. 31,508 ◯ Thirty thousand, five hundred eight.

4 Write the numbers in order from least to greatest (asceding order).

1. 325,261 , 532,272 , 24,362 , 532,271 *(Giza - 6th October 25)*

   The order is : ——— , ——— , ——— , ———

2. 3 hundreds , three hundred thousands , 30,000 *(Alex. - East 25)*

   The order is : ——— , ——— , ———

5 Write the numbers in order from greatest to least (descending order).

1. 5,021 , 5,201 , 5,102 , 5,210 *(Qena 25)*

   The order is : ——— , ——— , ——— , ———

2. Seven thousands , 70 tens , 74 hundreds , 7,070 *(El-Menia - Beni Mazar 25)*

   The order is : ——— , ——— , ——— , ———

6 Find the following results.

1. 653 − 296 = _____

2. 529 − 188 = _____

3. 784 + 92 = _____

4. 587 + 239 = _____ *(Giza – 6th October 25)*

5. 7,520 − 4,713 = _____ *(Souhag – Akhmem 25)*

6. 853 − 470 = _____ *(Alex - Montaza 25)*

7. 2,345 + 4,325 = _____

8. 7,892 − 2,561 = _____

9. 4,130 + 524 + 64 = _____

10. 20 + 135 + 2,142 = _____

11. 2,475 – 525 = _____ *(Alex. - El-Gomrok 25)*

12. 184 + 97 = _____ *(Ismailia - West El-Kantara 25)*

13. 630 + 221 = _____ *(Cairo - East Nast City 25)*

14. 3,859 – 1,739 = _____ *(Alex. - East 25)*

15. 3,256 + 6,544 = _____ *(Qena 25)*

16. 7,862 – 3,426 = _____ *(El-Sharkia - Menia El-Kamh 25)*

17. 8,453 – 2,369 = _____ *(Cairo - El-Waily 25)*

18. 8,423 + 1,857 = _____ *(El-Sharkia - Menia El-Kamh 25)*

19. 9,000 – 2,536 = _____ *(Kafr El-Sheikh 25)*

20. (1) 263 + 185 = _____ *(El-Monofia - Berket El-Sabe 25)*
    (2) 417 – 152 = _____

21. (1) 4,623 – 1,251 = _____ *(Giza - 6th October 25)*
    (2) 5,651 + 2,239 = _____

22. (1) 899 + 1,001 = _____ *(Dameitta 25)*

(2) 4,656 – 2,264 = _____

23. (1) 745,626 – 323,418 = _____ *(El-Monofia - Ashmoun 25)*

(2) 10,685 + 359,124 = _____

7 Answer the following.

1. **Use the multiplication facts and patterns to find.** *(Port Said 25)*

(1) 5 × 30 = _____ (2) 5 × 300 = _____

2. 30 × 400 = _____ thousands. *(Kafr El-Sheikh 25)*

3. **Find the results.** *(Cairo - El-Sayada 25)*

(1) 925 – 610 = _____ (2) 8 × 40 = _____

(3) 823 + 262 = _____

4. **Find the results.** *(El-Beheira 25)*

(1) 6, 4 6 2
+ 1, 2 3 4
_____

(2) 4, 5 8 7
– 1, 3 0 4
_____

(3) 8
× 5
_____

5. **Find the results.** *(El-Dakahlia 25)*

(1) 6,957 – 2,382 = _____ (2) 2,135 + 1,645 = _____

(3) 7,000 × 4 = _____

6. **Solve.** 142 + 279 + 116 *(Suez 25)*

(_____ + _____) + 116 = _____ + 116 = _____

7. Mohanad bought a phone for 4,130 pounds and a watch for 680 pounds.
What is the total money Mohanad will pay ?

The total money Mohanad will pay = _____ + _____ = _____ pounds.

(Cairo - El-Mokatam 25)

8. Amr saved 320 pounds in one year , the next year he saved 333 pounds.
What is the total amount he saved ? *(El-Monofia - Menouf 25)*

_____

9. Ahmed has 4,800 pounds he bought a phone for 3,465 pounds
Find the remainder with him. *(El-Gharbia 25)*

_____

10. Huda had 7,522 pounds. Her father gave her 1,135 pounds.
How much money with her now ? *(Giza - 6th October 25)*

The total money with her = _____

11. Sara bought 5 books , the price of each book is 30 pounds.
How much did Sara pay ? *(Giza - 6th October 25)*

_____

12. A bag of balls holds 60 balls. How many balls are there in 6 bags ?

(El-Monofia - Menouf 25)

_____

13. A school stage contains 6 rows of chairs each raw contains 30 chairs
How many chairs are there in this stage ? *(Port Said 25)*

_____

14. Mark went to the store 6 times last month. He bought 12 eggs each time he went there. How many eggs did Mark buy last month ? *(Cairo - El-Waily 25)*

_____

Fourth Directorates Exams

1 Choose the correct answer :

(1) The smallest number formed from the digits 3 , 8 , 0 , 7 and 9 is _____

A. 70,839 B. 30,897 C. 30,789 D. 30,987

(2) _____ is a multiple of 3

A. 18 B. 16 C. 14 D. 26

(3) The quadrilateral which has 4 sides equal in length and 4 non similar vertices is _____

A. rectangle B. square C. rhombus D. parallelogram

(4) 13,764 ☐ 3,000 + 10,000 + 60 + 700

A. > B. = C. < D. otherwise

(5) $7 \times 13 = (7 \times$ _____ $) + (7 \times 7)$

A. 10 B. 8 C. 6 D. 5

(6) Thirty - two thousands , thirty two is _____

A. 32,032 B. 3,232 C. 3,232 D. 32,320

(7) 3 meters = _____ centimeters.

A. 30 B. 300 C. 3 D. 3,000

(8) Rami planted 2 areas with flowers , the area of one of them is (3×6) square units and the other is (2×9) square units , the sum of the two areas = _____ square units.

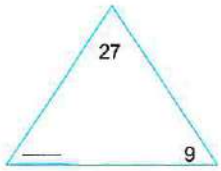
A. 36 B. 18 C. 9 D. 27

(9) 4 groups of 6 = _____

A. $6 - 4$ B. $4 + 6$ C. 4×6 D. $4 + 4 + 4 + 4$

2 Answer the following questions :

(1) Write the missing factor in the opposite triangle and complete the fact family.



_____ ÷ _____ = _____

_____ × 9 = _____

(2) Arrange the following numbers in a descending order :

8,254 , 2,458 , 4,285 , 5,248

The order is : _____ , _____ , _____ , _____

(3) 8,453 – 2,369 = _____

(4) Write the multiples of the number 2 that are less than 13

_____ , _____ , _____ , _____ , _____ , _____ , _____

(5) By using the number of rows and the number of columns , determine the total area of the shape.

The total area = _____ square units.

(6) Calculate the elapsed time between the two clocks :

Start

____ : ____

End

____ : ____

Elapsed time : _____

(7) Hany went to the store 6 times last month. He bought 12 eggs each time he went there. How many eggs did he buy last month ?

_____

2 Cairo Governorate

El-Sayada Zeinab Educational Administration

1 Choose the correct answer :

(1) The value of the underline digit 1<u>9</u>,060 is _____

A. 9,000 B. 900 C. 90 D. 99

(2) A rectangular rug is 8 meters long and 3 meters wide. What is the area of the rug ? _____ square meters.

A. 7 B. 6 C. 5 D. 24

(3) The length of the bus should be measured by _____

A. ml B. km C. mm D. m

(4) The pentagon has _____ sides.

A. 5 B. 6 C. 7 D. 8

(5) $6 \times 3 =$ _____ $\times 6$

A. 15 B. 5 C. 3 D. 7

(6) $36 \div 6 =$ _____

A. 6 B. 5 C. 4 D. 3

(7) $3 + 3 + 3 + 3 + 3 =$ _____

A. 3×3 B. 2×4 C. 3×5 D. 5×5

(8) Sixty-two thousand , three hundred nineteen in standard form is _____

A. 62,319 B. 319 C. 62,000 D. 62,900

(9) 6,534 ☐ 6,644

A. > B. < C. =

2 Answer the following questions :

(1) Write the pairs of factors for the number 18

_____ × _____ _____ × _____

_____ × _____ _____ × _____

_____ × _____ _____ × _____

(2) Complete the patterns :

a. ○ △ , ○ △ , _____

b. 50 , 40 , 30 , _____

c. 56 , 54 , 52 , _____

(3) Write in expanded form :

812,004 = _____ + _____ + _____ + _____

(4) Find the result :

a. $925 - 610 =$ _____

b. $8 \times 40 =$ _____

c. $823 + 262 =$ _____

(5) Arrange in an ascending order (from least to greatest) :

5,102 , 5,201 , 5,210

The order is : _____ , _____ , _____

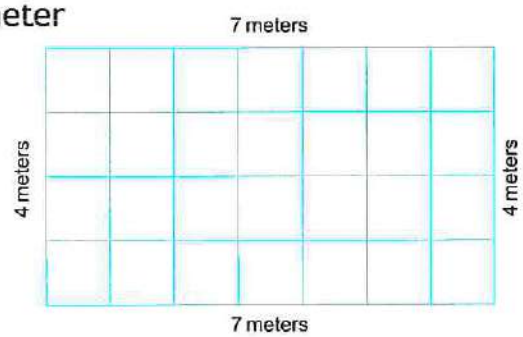
(6) Omnia wants to put a wooden trim around her window. The window is 4 meters long and 1 meter wide. How much wood does she need for the trim ?

_____ = _____

(7) By using the opposite figure , find the perimeter and the area :

Perimeter = _____ meters.

Area = _____ square meters.



3 Cairo Governorate

El-Mokatam Educational Administration

1 Choose the correct answer :

(1) $4 \times 7 = 7 \times$ _____

A. 2 B. 3 C. 4 D. 5

(2) $5 + 5 + 5 = 5 \times$ _____

A. 3 B. 4 C. 5 D. 6

(3) The value of the digit 7 in the number 75,643 is _____

A. 7,000 B. 70,000 C. 70 D. 7

(4) The unit of measuring capacity of a medicine bottle is _____

A. milliliter B. liter C. meter D. cm

(5) 17 , 27 , 37 , _____ (in the same pattern)

A. 27 B. 74 C. 48 D. 47

(6) The number of sides of the square is _____ sides.

A. 2 B. 3 C. 4 D. 5

(7) 8 cm = _____ mm

A. 800 B. 80 C. 8,000 D. 8

(8) 14,000 = _____ thousands.

A. 16 B. 15 C. 14 D. 4

(9) 41,568 ☐ 14,568

A. < B. > C. =

2 Answer the following questions :

(1) Mohanad bought a phone for 4,130 pounds and a watch for 680 pounds.

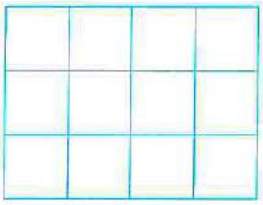
The total money Mohanad will pay

= _____ + _____ = _____ pounds.

(2) If the minute hand points to 4 , it means that _____ minutes have passed.

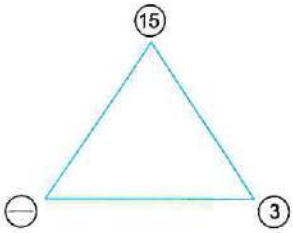
(3) Find the area of the opposite figure :

Area = _____ ☐



(4) 30 ÷ 5 = _____

(5) The missing factor in the opposite triangle is _____



(6) 6 × 7 = (6 × 4) + (6 × _____)

(7) The greatest number formed from the digits 8 , 5 , 4 , 0 and 6 is _____

4 Giza Governorate

6th October Educational Directorate

1 Choose the correct answer :

(1) The greatest 5-different digit number is _____

A. 99,999 B. 98,765 C. 56,789 D. 10,234

(2) 4 + 4 = _____

A. 3 × 5 B. 2 × 4 C. 6 × 1 D. 6 × 4

(3) The polygon that has five vertices is _____

A. square B. pentagon C. triangle D. circle

(4) $9 \times 6 = (9 \times 2) + (9 \times$ _____)

A. 4 B. 8 C. 1 D. 6

(5) The number that the minute hand will point to when 20 minutes has passed is _____

A. 2 B. 4 C. 12 D. 6

2 Choose the correct answer :

(1) $6 \div 2$ ☐ $12 \div 4$

A. > B. < C. = D. otherwise

(2) The number of elements in 5 rows and 7 columns is _____

A. 20 B. 18 C. 40 D. 35

(3) $6 \times$ _____ $= 0$

A. 0 B. 1 C. 2 D. 3

(4) 17 L = _____ mL

A. 17 B. 170 C. 1,700 D. 17,000

3 Answer the following questions :

(1) Find the result :

a. 4,623 – 1,251 = _____ b. 5,651 + 2,239 = _____

(2) Write the numbers in an ascending order :

5,336 , 9,835 , 5,012 , 4,784

The order is : _____ , _____ , _____ , _____

4 Answer the following questions :

(1) Sara bought 5 books, the price of each book is 30 pounds.
How much did Sara pay ?

_____

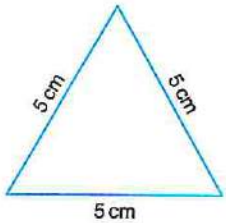
(2) Write the number 65,201 in expanded form :

65,201 = _____ + _____ + _____ + _____

5 Answer the following questions :

(1) Find the perimeter of the opposite triangle.

The perimeter = _____



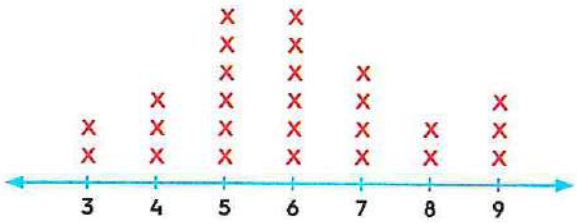
(2) A rectangle with length of 5 m and width of 6 m

Find the area.

_____

(3) Use the line plot to answer :

Number of letters in our first name



Number of letter

Key: Each x represents one child.

a. How many children have 5 letters in their first names ? _____

b. How many children have 8 letters in their first names ? _____

5 Giza Governorate — El-Omrania Educational Directorate

1 Choose the correct answer :

(1) The value of the digit 5 in the number 75,049 is _____

A. 5 B. 50 C. 500 D. 5,000

(2) 4 liters = _____ mL

A. 4,000 B. 400 C. 40 D. 4

(3) The polygon △ is called _____

A. square B. triangle C. rectangle D. pentagon

(4) 20 , 24 , 28 , 32 , _____ (in the same pattern)

A. 33 B. 34 C. 36 D. 38

(5) 3 thousands = _____

A. 300 B. 30 C. 3,000 D. 3

(6) The greatest 5-digit number is _____

A. 10,000 B. 9,876 C. 98,765 D. 99,999

(7) The tally marks |||| means _____

A. 4 B. 5 C. 6 D. 7

(8) 648 + 9,000 = _____

A. 90,648 B. 9,648 C. 6,489 D. 64,809

(9) _____ is a multiple of 10

A. 15 B. 25 C. 30 D. 35

2 Answer the following questions :

(1) A box contains 5 pencils. How many pencils are there in 8 boxes ?

The number of pencils = _____

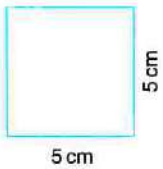
(2) Arrange the numbers from the least to the greatest :

32,051 , 15,230 , 53,201

The order is : _____ , _____ , _____

(3) Find the area of the opposite figure :

The area = _____ × _____ = _____ square centimeters.



(4) Use the opposite figure , complete :

The name of the opposite figure is _____

The number of vertices is _____

The perimeter = _____ cm

(5) Adham had 24 pencils. He wanted to distribute them between his 4 friends equally. How many pencils did each one of them get ?

Number of pencils with each one = _____

(6) The time is [____ : ____]

It's _____

(7) Huda had 7,562 pounds. Her father gave her 1,234 pounds.

How much money with her now ?

Total money with her = _____

6 Alexandria Governorate

Montaza 1 Educational Zone

1 Choose the correct answer :

(1) 12,549 ☐ 15,249

A. > B. < C. =

(2) 8 meters ☐ 900 cm

A. < B. > C. =

(3) The next number in the pattern : 8 , 7 , 6 , _____

A. 5 B. 4 C. 3 D. 1

(4) An array with 7 rows and 4 columns. The total number of its elements is _____

A. 28 B. 14 C. 11 D. 16

(5) The quadrilateral whose all sides are equal in length is _____

A. square B. rectangle C. trapezium D. parallelogram

(6) 63 ÷ 7 = _____

A. 6 B. 7 C. 8 D. 9

(7) The quadrilateral that has only one pair of parallel sides is _____

A. rectangle. B. square C. rhombus D. trapezium

(8) The value of the digit 3 in the number 23,567 is _____

A. 3 B. 300 C. 3,000 D. 30,000

(9) The number _____ is a multiple of 3

A. 2 B. 4 C. 6 D. 8

2 Answer the following questions :

(1) A rectangle with a length of 4 cm and a width of 3 cm , find its area.
The area = _____ square centimeters.

(2)
```
  5,324
+ 6,053
-------
```

(3)
```
  853
- 470
-----
```

(4) Emad has a library consisting of 4 shelves and he wants to distribute 32 books equally among these shelves , how many books are there on each shelf ?
Number of books on each shelf = _____ books.

(5) Write the greatest number formed from the digits 7 , 2 , 0 , 9 and 1

The greatest number is _____

(6) Arrange the following numbers from greatest to smallest :

seventeen thousands , 17,003 , 1,700 , 9,000

The order is : _____ , _____ , _____ , _____

(7) A squared carpet with a side length of 3 m , calculate its area.

Its area = _____ square meters.

7 Alexandria Governorate

East Educational Zone

1 Choose the correct answer :

(1) $5 \times 8 = 8 \times$ _____

A. 5 B. 8 C. 7 D. 6

(2) 70 mm = _____ cm

A. 7,000 B. 700 C. 70 D. 7

(3) The number _____ is a multiple of the two numbers 5 or 10

A. 25 B. 20 C. 15 D. 13

(4) The value of the digit 2 in the number 25,613 is _____

A. 2,000 B. 20,000 C. 200 D. 2

(5) $(6 \times 2) + (6 \times 5) =$ _____

A. 6×2 B. 6×5 C. 6×6 D. 6×7

(6) $36 \div 9 = 2 \times$ _____

A. 5 B. 4 C. 3 D. 2

(7) The number of vertices of the triangle is _____

A. 3 B. 4 C. 5 D. 6

(8) The square has _____ similar vertices.

A. 1 B. 3 C. 4 D. 7

(9) The tally mark ~~||||~~ ||| represents the number _____

A. 9 B. 8 C. 7 D. 6

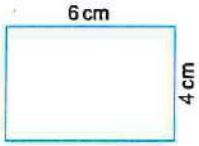
2 Answer the following questions :

(1) Nour bought 4 pens of the same type for 32 pounds.

What is the price of each pen ?

The price of each pen = _____

(2) Find the area of the opposite rectangle.



The area = _____ × _____

= _____ square centimeters.

(3) Write the smallest number formed from the digits 4 , 9 , 8 , 0 and 2

_____

(4) Arrange the following in an ascending order :

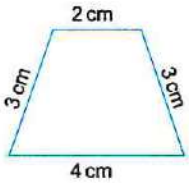
3 hundreds , three hundred thousands , 30,000

The order is : _____ , _____ , _____

3 Answer the following questions :

(1) 3,859 – 1,739 = _____

(2) Find the perimeter of the opposite figure.



_____

(3) Draw an array according to the multiplication problem 3 × 4

Then find the product.

_____

_____

_____

8 **El-Kalyoubia Governorate**

Maths Supervision

1 Choose the correct answer :

(1) Sixty thousand , two hundred sixty in standard form is _____

A. 60,216 B. 60,260 C. 602,006 D. 16,260

(2) The value of the digit 4 in the number 674,213 is _____

A. thousands B. 40,000 C. 4,000 D. ten thousands

(3) 33 , 38 , 43 , _____ (in the same pattern)

A. 44 B. 45 C. 48 D. 50

(4) 198,521 ☐ 2 hundred thousands

A. > B. < C. =

(5) 7×8 = _____

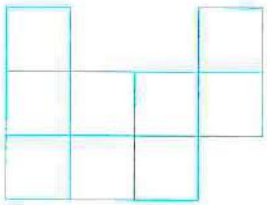
A. 8×5 B. 8×7 C. 7×9 D. 7×7

(6) _____ $\times 4 = 40$

A. 6 B. 2 C. 5 D. 10

(7) Which of the following does not represent a parallelogram ?

A. square B. trapezium C. rhombus D. rectangle

(8) The area of the figure  equals _____

A. 6 B. 7 C. 8 D. 9

(9) _____ L = 7,000 mL

A. 7 B. 70 C. 700 D. 7,000

2 Answer the following questions :

(1) Write in standard form : 8 thousands , 4 tens and 3 ones.

_____

(2) There are 7 mangoes in a box. How many mangoes are there in 3 boxes ?

_____

(3) Sameh has 21 oranges and wants to put them equally in 3 plates.
How many oranges are there in each plate ?

_____

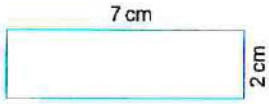
(4) 445 + 253 = _____

(5) The factors of 6 are : _____ , _____ , _____ , _____

(6) 8,342 – 2,130 = _____

(7) Find the perimeter of the opposite figure.

The perimeter = _____ cm



1 Choose the correct answer :

(1) _____ is a multiple of 4

A. 3 B. 16 C. 9 D. 25

(2) The value of the digit 9 in the number 960,341 is _____

A. 9 B. 90 C. 900,000 D. 9,000

(3) 800 tens = _____ thousands

A. 8 B. 80 C. 800 D. 8,000

(4) 8 L = _____ mL

A. 8 B. 80 C. 800 D. 8,000

(5) 192,562 ☐ 9,000 + 10,000 + 60 + 600

A. > B. < C. = D. otherwise

(6) 3 × 12 = (3 × 9) + (3 × _____)

A. 12 B. 3 C. 7 D. 9

(7) 56 ÷ 8 = _____

A. 5 B. 8 C. 7 D. 9

(8) The polygon which has _____ sides is called a pentagon.

A. 4 B. 5 C. 6 D. 7

(9) 40,000 + 300 + 5,000 + 70 + 8 = _____

A. 43,587 B. 304,587 C. 45,378 D. 757,853

2 Answer the following questions :

(10) Write the name of two polygons each of them has 4 sides _____ , _____

(11) A rectangle is 3 m long and 2 m wide. What is its area ?

_____

(12) The factors of 12 are :

_____ , _____ , _____ , _____ , _____ , _____

(13) 7,862 – 3,426 = _____

(14) Write the numbers in an ascending order.

11,012 , 7,234 , 12,011 , 7,235 , 109,001

The order is : _____ , _____ , _____ , _____ , _____

(15) 8,423 + 1,857 = _____

(16) 403,832 in word form is _____

10 El-Monofia Governorate

Berket Elsaba Directorate
Mathematics Supervision

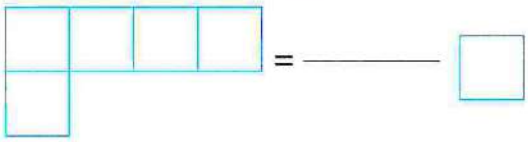
1 Choose the correct answer :

(1) The place value of the digit 3 in the number 23,561 is _____

A. hundreds B. thousands C. 3,000 D. 300

(2) 3 × 60 = _____

A. 18 B. 180 C. 1,800 D. 18,000

(3) The area of the figure  = _____

A. 5 B. 10 C. 12 D. 14

(4) 9 , 19 , 29 , 39 , _____ (in the same pattern)

A. 40 B. 45 C. 49 D. 50

(5) 3 × _____ = 6 + 6

A. 12 B. 2 C. 4 D. 8

(6) The number thirty-two thousand , five hundred forty in standard form is _____

A. 32,540 B. 32,514 C. 32,054 D. 32,450

(7) The number which the minute hand points to when 20 minutes have passed is _____

A. 4 B. 5 C. 6 D. 7

(8) The number of sides of the pentagon is _____

A. 7 B. 6 C. 4 D. 5

(9) 6 m = _____ cm

A. 60 B. 6 C. 6,000 D. 600

2 Answer the following questions :

(1) Arrange the following numbers in an ascending order :

7,345 , 62,125 , 7,215 , 26,128

The order is : _____ , _____ , _____ , _____

(2) Adam wants to divide 35 pens equally among 7 of his friends ,
How many pens does each friend get ?

_____

_____

(3) A rectangle its length is 6 cm and its width is 4 cm , **find its area.**

_____

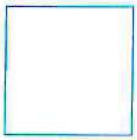
_____

(4) Find the result of :

a. 263 + 185 = _____

b. 417 – 152 = _____

(5) The opposite figure is a square whose side length 5 cm Find its perimeter.



_____

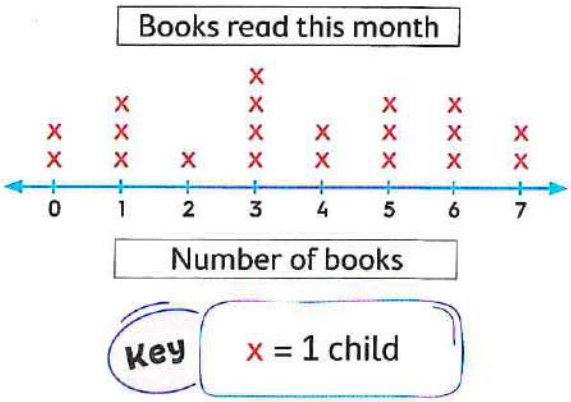
_____

(6) Complete the following :

3 × 50 = (_____ × _____) × 10

= _____ × _____ = _____

(7) The opposite line plot shows the number of books read by 20 children in one month.



a. How many children read 5 books ?

_____

b. How many children did not read any book ?

_____

1 Choose the correct answer :

(1) The number of sides of the pentagon = _____

A. 4 B. 5 C. 6 D. 7

(2) $3 \times 6 = 2 \times$ _____

A. 3 B. 6 C. 2 D. 9

(3) $3 \times 15 = (3 \times 10) + (3 \times$ _____ $)$

A. 3 B. 10 C. 5 D. 18

(4) 65,429 = 60,000 + 5,000 + _____ + 20 + 9

A. 4 B. 40 C. 400 D. 4,000

(5) If $3 \times 7 = 21$, then $21 \div 7 =$ _____

A. 3 B. 21 C. 7 D. 24

(6) 777 , 666 , 555 , _____ (in the same pattern)

A. 111 B. 222 C. 333 D. 444

(7) 70,000 mL = _____ L

A. 7 B. 70 C. 700 D. 7,000

(8) 300 mm = _____ cm

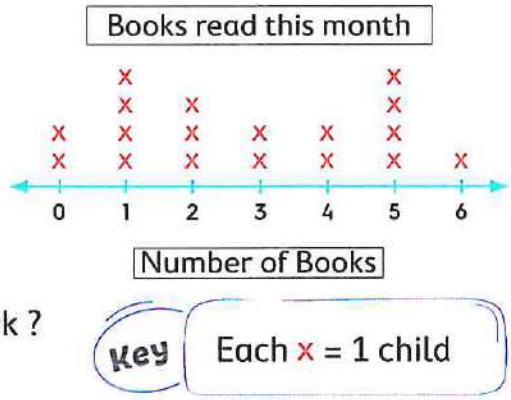
A. 2 B. 30 C. 300 D. 3,000

(9) $4 \times 1,000 =$ _____ hundreds

A. 4 B. 40 C. 400 D. 4,000

2 Answer the following questions :

(1) The opposite line plot shows the number of the books read by children in a month , answer the following :



a. How many children read 6 books ?

_____

b. How many children did not read any book ?

_____

c. How many children read more than 3 books ?

_____

(2) Lamar bought 30 toys and she wanted to distribute them equally among 6 children.

What is the share of each child ?

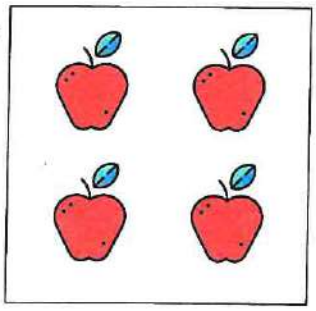
_____

_____

3 Answer the following questions :

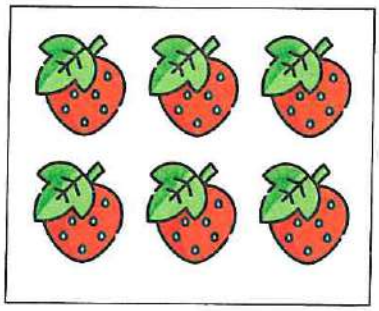
(1) Write a multiplication sentence for each.

a.



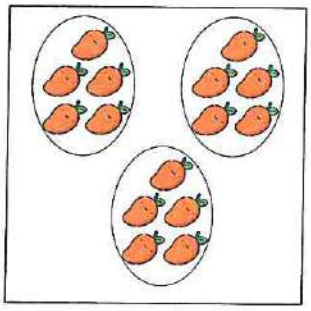
_____

b.



_____

c.



_____

(2) Arrange in an ascending order :

3,725 , 9,634 , 3,257 , 9,432

The order is : _____ , _____ , _____ , _____

4 Answer the following questions.

(1) Write the time shown on the clock.

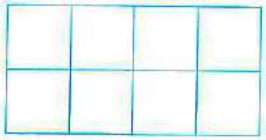
_____ : _____

(2) Ahmed has 4,800 pounds , he bought a phone for 3,465 pounds.

Find the remainder with him.

_____

(3) Find the perimeter and the area of the opposite figure.



Perimeter = _____

Area = _____

1 **(a) Choose the correct answer :**

(1) The value of the digit 7 in the number 47,356 is _____

A. 7,000 B. 700 C. 70 D. 7

(2) _____ ÷ 4 = 4

A. 16 B. 8 C. 4 D. 1

(3) The octagon is a polygon which has _____ sides.

A. 5 B. 6 C. 7 D. 8

(b) Amira bought 9 books from Cairo Book Fair , the price of each book is 50 pounds. How much money did Amira pay ?

_____

2 **(a) Choose the correct answer :**

(1) 70,000 + 500 + 30 + 1 = _____

A. 1,357 B. 70,531 C. 75,301 D. 75,310

(2) 7 cm = _____ mm

A. 700 B. 70 C. 7 D. 7,000

(3) (8 × 11) = (8 × 9) + (8 × _____)

A. 11 B. 9 C. 8 D. 2

(b) There are 56 fish , we want to divide them among 7 tanks equally. How many fish are there in each tank ?

_____

3 **(a) Name the figure and write the missing number :**

(1) Figure name : _____

(2) Number of vertices : _____

(3) Number of pairs of parallel sides : _____

(b) Choose the correct answer :

(1) A quadrilateral has two pairs of parallel sides is _____

A. circle B. rectangle C. trapezium D. triangle

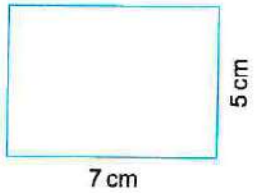
(2) $60 \times 30 =$ _____ tens

A. 18,000 B. 1,800 C. 18 D. 180

(3) $9 + 9 + 9 = 3 \times$ _____

A. 3 B. 9 C. 18 D. 27

4 **(a) From the opposite figure find :**



Perimeter = _____ + _____ + _____ + _____

= _____ cm.

Area = _____ × _____

= _____ square centimeters.

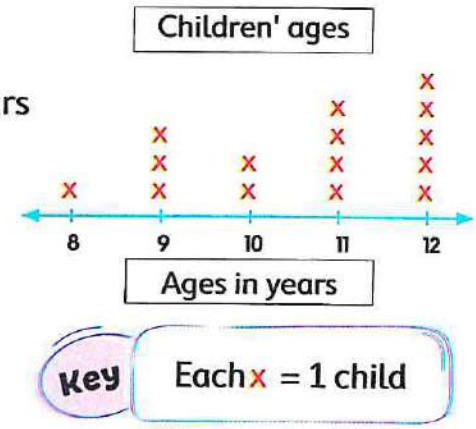
(b) Find the result :

(1) $6{,}547 - 2{,}483 =$ _____

(2) $4{,}235 + 2{,}315 =$ _____

(3) $8{,}000 \times 4 =$ _____

5 **(a) Use the opposite line plot to answer :**



(1) How many children whose age are 11 years old ? _____

(2) Which age has the greatest number of children ? _____

(b) Count and answer the questions :

Heads	Tails
𝍸 ||	||||

(1) How many heads ? _____

(2) How many tails ? _____

(3) How many in all ? _____

1 Choose the correct answer :

(1) The value of the digit 2 in the number 123,465 is _____

A. 200 B. 2,000 C. 20,000 D. 200,000

(2) The number just before the number 4,256 is _____

A. 4,254 B. 4,255 C. 4,257 D. 4,258

(3) A bag contains 3 oranges , the number of oranges in 5 bags is equal to _____

A. 15 B. 12 C. 9 D. 6

(4) If the numbers 1 , 2 , 3 , 4 , 6 , 12 are all factors of a number , then this number is _____

A. 2 B. 4 C. 6 D. 12

(5) Hoda is sewing the edges of a square baby blanket its side length is 60 cm. , then the perimeter of the blanket is _____ cm

A. 100 B. 180 C. 200 D. 240

(6) $7 \times 7 = (7 \times$ _____ $) + (7 \times 5)$

A. 5 B. 3 C. 2 D. 1

(7) The polygon that has 4 equal sides and 4 similar vertices is _____

A. square B. rectangle C. triangle D. trapezium

(8) The number of vertices of a pentagon is _____

A. 4 B. 5 C. 6 D. 7

(9) $45 \div 5 =$ _____

A. 6 B. 8 C. 9 D. 10

2 Answer the following questions :

(10) The missing number in the pattern : 16 , 20 , 24 , ... , 32 is _____

(11) $184 + 97 =$ _____

(12) By using the addition operation : 8 + 8 + 8 , write the multiplication operation that represents it.

_____

(13) Mona started doing her homework at 3 : 00. If it took her 45 minutes to finish the homework , what was the time in which Mona finished doing the homework ?

_____

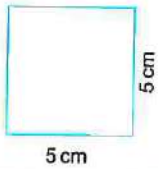
(14) Write the names of two polygons , each of them has 4 similar vertices.

_____

(15) Find the area of the opposite figure.

_____

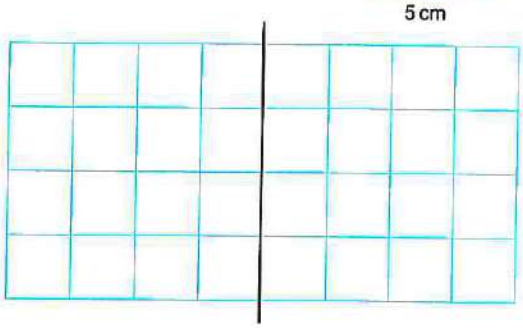
_____



(16) The following array is divided into two arrays.
Write the multiplication factors for each part to find the product of 4 × 8.

_____

_____



14 Suez Governorate

Directorate of Education
Maths Supervision

1 Choose the correct answer :

(1) The value of the digit 4 in the number 4,530 is _____

A. 4 B. 40 C. 400 D. 4,000

(2) 5,000 + 700 + 2 = _____

A. 572 B. 5,270 C. 5,702 D. 5,720

(3) The area of a rectangle with 4 cm long and 2 cm wide equals _____ square centimeters.

A. 2 B. 4 C. 8 D. 6

(4) Quarter of an hour = _____ mintues

A. 15 B. 30 C. 45 D. 60

(5) 5 liters = _____ milliliters

A. 5,000 B. 500 C. 50 D. 50,000

(6) 10 × 6 = _____

A. 16 B. 10 + 6 C. 61 D. 60

(7) 4 rows of 7 = _____

A. 11 B. 28 C. 47 D. 74

(8) The square has _____ equal sides in length.

A. 1 B. 2 C. 3 D. 4

(9) $8 \times 3 =$ _____

A. 24 B. 240 C. 204 D. 402

2 Answer the following questions :

(1) 3 thousand , 215 in standard form is _____

(2) Arrange in an ascending order : 8,351 , 4,751 , 2,753 , 6,173

The order is : _____ , _____ , _____ , _____

(3) The greatest number formed from the digits : 3 , 7 , 0 , 8 , and 4 is _____

(4) Complete to solve :

132 + 279 + 114 = (_____ + _____) + 114 = _____ + 114 = _____

(5) Ibrahim bought 3 books , each book costed 30 pounds.

How much money did Ibrahim pay ?

_____

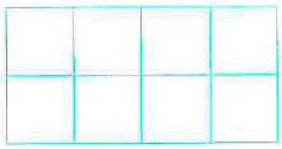
(6) If the price of one meter of cloth is 8 L.E. , then find the price of 4 meters of this cloth.

The price of 4 meters = _____ × _____ = _____ L.E.

(7) Calulate the perimeter and the area of the opposite figure.

The perimeter = _____ length units.

The area = _____ square units.



15 Kafr El-Sheikh Governorate

Directorate of Education
Maths Supervision

1 Choose the correct answer :

(1) The place value of the digit 5 in the number 325,647 is _____

A. thousands B. hundreds C. tens D. ones

(2) 30 hundreds ☐ 3,000

A. > B. < C. = D. otherwise

(3) 3 equal groups of 5 = _____

A. 15 B. 12 C. 9 D. 25

(4) The heptagon has _____ vertices.

A. 5 B. 6 C. 7 D. 8

(5) $7 \times 10 = (7 \times \Delta) + (7 \times \bigcirc)$, then $\Delta + \bigcirc =$ _____

A. 1 B. 5 C. 10 D. 11

(6) 3 m + 3 cm = _____ cm

A. 33 B. 303 C. 330 D. 3

(7) Which of the following is not a polygon ?

A. pentagon B. circle C. hexagon D. triangle

(8) The greatest number that can be formed from the digits : 3 , 2 , 4 , 8 , and 6 is _____

A. 86,432 B. 68,432 C. 48,632 D. 23,648

(9) The number _____ is a factor of 15

A. 3 B. 7 C. 8 D. 2

2 Answer the following questions :

(1) $20 \times 600 =$ _____ thousands.

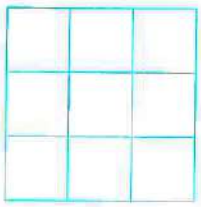
(2) The number 4,268 in expanded form is :

_____ + _____ + _____ + _____

(3) 8,000 – 2,465 = _____

(4) Salma bought 5 pens , if the price of the pens is 45 pounds.
Find the price of each pen.
The price of each pen = _____ pounds.

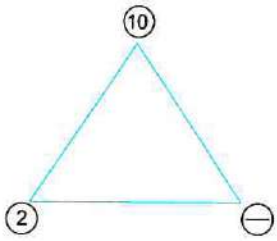
(5) **Find the perimeter and the area of the opposite figure.**



a. Perimeter = _____ cm

b. Area = _____ square centimeters.

(6) Find the missing factor in the opposite triangle ,
then write the four sentences that show the fact family.



_____

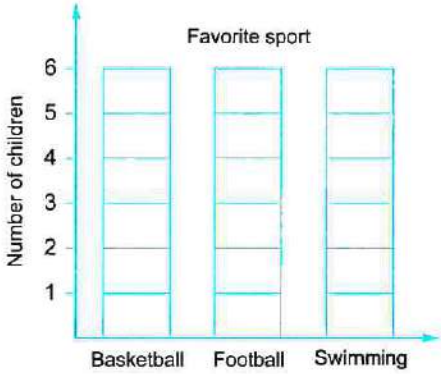
_____

_____

_____

(7) Count the tallies. Complete the table , then color the graph.

Favorite Sport		
Sport	**Tally**	**Number**
Basketball	|||	_____
Football	卌	_____
Swimming	卌 |	_____



16 El-Beheira Governorate

Directorate of Education
Maths Supervision

1 Choose the correct answer :

(1) The value of the digit 0 in the number 301,532 is _____

A. 10 B. 0 C. 1,000 D. 100

(2) 4×3 ☐ 2×6

A. < B. > C. = D. otherwise

(3) $6 + 6 + 6 + 6 =$ _____ $\times 6$

A. 6 B. 4 C. 5 D. 12

(4) 30 , 32 , 34 , _____ (in the same pattern)

A. 35 B. 36 C. 37 D. 38

(5) $3 \times 400 =$ _____

A. 12 B. 120 C. 1,200 D. 200

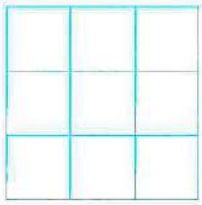
(6) The tally marks 卌 卌 represent _____

A. 10 B. 8 C. 2 D. 5

(7) The octagon has _____ sides

A. 4 B. 5 C. 8 D. 7

(8) The area of the opposite figure is _____ ☐



A. 4 B. 6

C. 8 D. 9

(9) 5 cm = _____ mm

A. 50 B. 500 C. 15 D. 5,000

2 Answer the following questions :

(1) Use the digits 4 , 5 , 0 and 7 to form the greatest and the smallest number.

a. The greatest number is _____

b. The smallest number is _____

(2) Amgad has 5,000 L.E. He bought a mobile for 3,550 L.E. Find the left money with him.

The left money = _____

(3) There are 6 apples in a box. How many apples are there in 5 boxes ?

Number of apples = _____

(4) Find the results.

a. 1,587 + 2,222 = _____

b. 6,587 − 432 = _____

c. 6 × 6 = _____

(5) Write the fact family for the set of numbers : 3 , 8 , 24

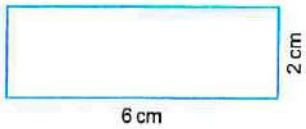
_____ × _____ = _____ _____ ÷ _____ = _____

_____ × _____ = _____ _____ ÷ _____ = _____

(6) Find the perimeter and the area of the opposite figure.

Perimeter = _____

Area = _____



(7) Write the name for each of the following figure.

a. _____

b. _____

c. _____

17 El-Menia Governorate

Maghagha Educational Administration

1 Choose the correct answer :

(1) 84 cm = _____ mm

A. 84 **B.** 840 **C.** 8,400 **D.** 84,000

(2) 7,325 ☐ 999

A. > **B.** < **C.** =

(3) The value of digit 5 in the number 752,386 is _____

A. 500 **B.** 5,000 **C.** 50,000 **D.** 5 tens

(4) The polygon which has 5 sides is called _____

A. triangle B. pentagon C. hexagon D. heptagon

(5) $6 + 6 + 6 + 6 =$ _____ $\times 6$

A. 2 B. 4 C. 6 D. 24

(6) _____ $= (8 \times 4) + (8 \times 5)$

A. 8×9 B. 8×8 C. 8×5 D. 8×2

(7) Six thousand , five hundred two in standard form is _____

A. 6,520 B. 6,502 C. 6,052 D. 6,205

(8) $60 \times 3 =$ _____

A. 18 B. 180 C. 120 D. 12

(9) 17 L = _____ mL

A. 17 B. 1,700 C. 17,000 D. 170

2 Answer the following questions :

(1) Write in expanded form :

96,273 = _____ + _____ + _____ + _____ + _____

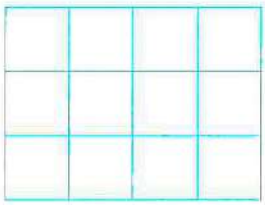
(2) The factors of 8 are : _____

(3) **Find the result :**

a.
```
  4,165
+ 3,648
-------
```

b.
```
  3,531
- 1,125
-------
```

(4) Find the area and the perimeter of the opposite figure.



Area = _____ □

Perimeter = _____

(5) Omar bought 6 books from Cairo Book Fair , the price of each is 50 pounds. How much money did Omar pay ?

_____

_____

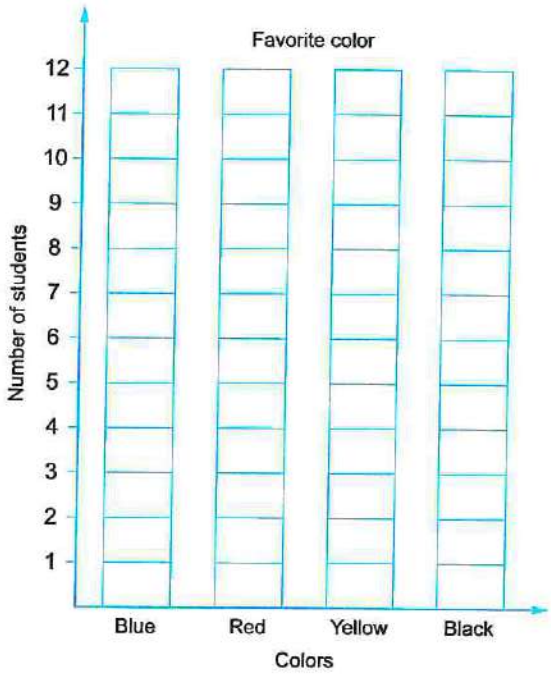
(6) Write the time in two ways.

It's _____

____ : ____

(7) Count the tallies. Complete the table , then color the graph.

Favorite Sport		
Colors	**Tallies**	**Number**
Blue	𝍸 |||	_____
Red	||||	_____
Yellow	𝍸 𝍸 |	_____
Black	𝍸 |	_____



18 Souhag Governorate

Directorate of Education
Maths Supervision

1 Choose the correct answer :

(1) The trapezium has exactly _____ pair(s) of parallel sides.

A. 1 B. 2 C. 3 D. 4

(2) 12 cm = _____ mm

A. 12 B. 120 C. 1,200 D. 12,000

(3) _____ is a multiple of 10

A. 2 B. 5 C. 20 D. 1

(4) $7 \times 10 = (7 \times 7) + (7 \times$ _____ $)$

A. 1 B. 2 C. 3 D. 17

(5) The value of the digit 0 in the number 23,058 is _____

A. 1,000 B. 10 C. 0 D. hundreds

(6) 60,000 + 5,000 + 40 + 8 = _____ (in standard form)

A. 65,408 B. 65,084 C. 65,048 D. 65,480

(7) 18 , 23 , 28 , 33 , _____ (in the same pattern)

A. 38 B. 43 C. 37 D. 33

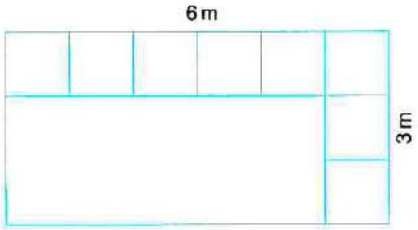
(8) How many groups of 5 are in 35 ?

A. 6 B. 5 C. 7 D. 40

(9) The tally marks 𝍸 𝍸 | represent _____

A. 9 B. 11 C. 8 D. 5

2 Answer the following questions :



(1) A sheep pen has a rectangular shape ,
its length is 6 m and its width is 3 m.
Calculate the length of the fence and the area.
The length of the fence (perimeter) = _____ m
The area = _____ square meters.

(2) Complete : 5 × 90 = (_____ × _____) × 10 = _____ × 10 = _____

(3) Write three common multiples of the numbers 2 and 3

_____ , _____ , _____

(4) a. Write the factors of 12

_____ × _____ , _____ × _____ , _____ × _____

b. Find.

```
  2,754
+ 1,253
-------
-------
```

(5) There is a bag with 4 loaves of bread.
How many loaves of bread are there in 5 bags ?

_____

(6) Arrange the following numbers in an ascending order.

253,000 , 35,271 , 75,342 , 253,420

The order is : _____ , _____ , _____ , _____

(7) a. Draw the hour hand and the minute hand that determine 6 : 15

b. Write the time.

_____ : _____

1 Choose the correct answer :

(1) $6 + 6 + 6 + 6 + 6 =$ _____ $\times 6$

A. 2 B. 4 C. 6 D. 5

(2) 5×3 ☐ 2×7

A. > B. = C. < D. otherwise

(3) $(8 \times 4) + (8 \times 3) = 8 \times$ _____

A. 5 B. 6 C. 7 D. 8

(4) 500,000 + 70,000 + 2,000 + 800 + 40 + 3 = _____

A. 57,348 B. 843,507 C. 572,843 D. 75,843

(5) The name of the opposite figure is _____

A. square B. rectangle

C. parallelogram D. trapezium

(6) 23 , 28 , 33 , _____ (in the same pattern)

A. 24 B. 35 C. 38 D. 40

(7) 34 cm = _____ mm

A. 340 B. 3,400 C. 34,000 D. 34

(8) $(3 \times 5) \times 10 =$ _____

A. 1,500 B. 150 C. 350 D. 15

(9) The place value of the digit 3 in the number 52,386 is _____

A. hundreds B. tens

C. thousands D. ten thousands

2 Answer the following questions :

(1) Draw the clock hands , and write the time. 04 : 30

It is _____

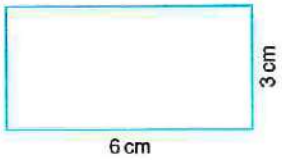
(2) Ahmed has 238 pounds , Dalia has 421 pounds.
How much money do they have alltogether ?

_____

(3) Use the opposite figure find :

Perimeter = ———————————— cm

Area = ———— square centimeters



(4) Mona has 18 eggs and she wants to divide them equally in 3 plates. How many eggs are there in each plate ?

———————————————————————————

(5) Find the result :

a. 1,355 + 1,420 = ———— **b.** 538 – 235 = ————

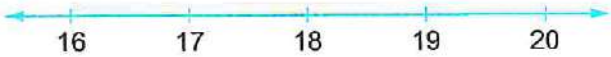
(6) Arrange from the greatest to the least :

17,072 , 52,791 , 83,415 , 20,109

The order is : ———— , ———— , ———— , ————

(7) Use the table to draw a line plot :

Hours	Number of students
16	3
17	2
18	2
19	5
20	4



Key Each x = 1 student

20 Aswan Governorate

Math Guide of Kom Ombo
Darow and Nasr Nuba

1 Choose the correct answer :

(1) 35 ÷ 5 = ————

A. 6 B. 7 C. 8 D. 9

(2) The value of the digit 2 in the number 2,345 is ————

A. 20 B. 200 C. 2,000 D. 20,000

(3) 46 hundreds = ————

A. 46 B. 4,600 C. 460 D. 46,000

(4) 7 liters = ———— milliliters

A. 7,000 B. 700 C. 70 D. 7

(5) 9,000 + 800 + 30 + 5 = ————

A. 9,853 B. 9,385 C. 9,835 D. 9,358

(6) The pentagon has _____ sides.

A. 4 B. 5 C. 6 D. 7

(7) 3,200 cm = _____ m

A. 32 B. 320 C. 3,200 D. 32,000

(8) The triangle has _____ vertices.

A. 5 B. 4 C. 3 D. 2

(9) The opposite figure is called _____

A. trapezoid B. square C. rhombus D. triangle

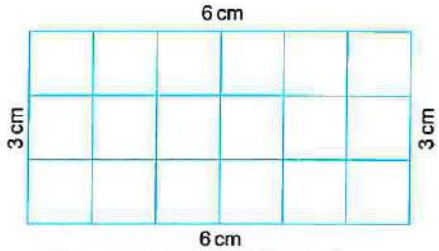
2 Answer the following questions :

(1) Arrange in an ascending order :

2,345 , 1,672 , 5,437 , 3,265

The order is : _____ , _____ , _____ , _____

(2) From the opposite figure find :



The perimeter = _____ cm

The area = _____ square centimeters

(3) 7,523 = _____ + _____ + _____ + _____ (in expanded form)

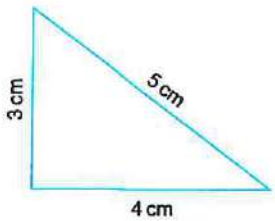
(4) Ahmed bought 5 books for 10 pounds each.
What is the price of all books ?
The price of 5 books = _____

(5) From the digits : 5 , 2 , 1 , 4 and 3 form :

a. The greatest number : _____

b. The smallest number : _____

(6) **Find the perimeter of the opposite figure :**



The perimeter =

_____ + _____ + _____ = _____ cm

(7) **Find the result :**

a. 2,345
+ 4,325
_____

b. 7,892
− 2,561
_____

EL-MOASSER

2026

Mathematics

By a group of supervisors

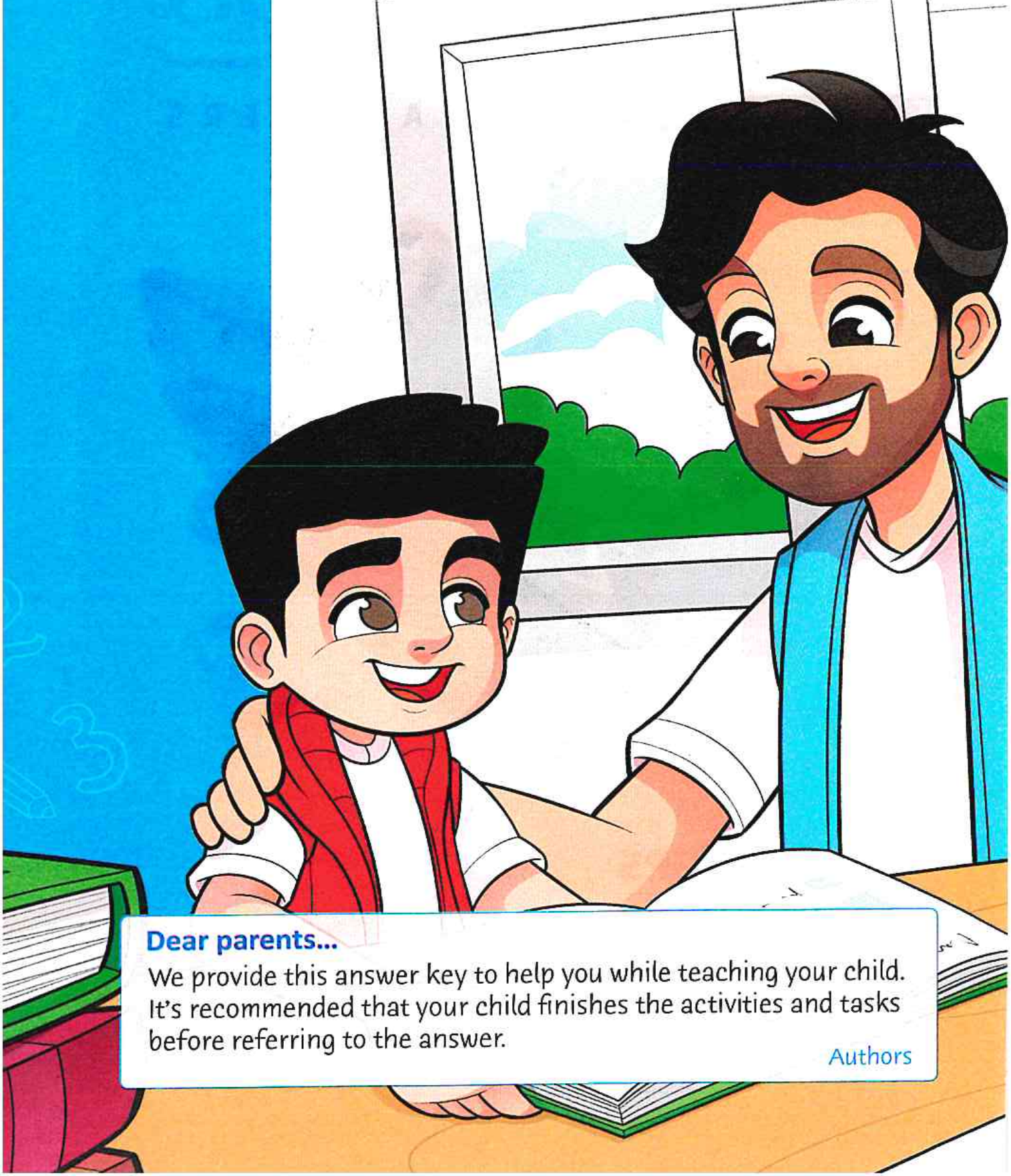
GUIDE ANSWERS

FREE PART 2

FIRST TERM

3rd PRIMARY

ANSWERS
of Parents' Guide



Dear parents...

We provide this answer key to help you while teaching your child. It's recommended that your child finishes the activities and tasks before referring to the answer.

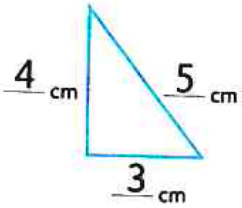
Authors

Answers of Revision

Revision 1

1. 182 , Yes
2. 01 : 30
3. 245
4. a. odd b. even c. even d. odd
5. a. < b. > c. =
6. 8
7. a. 100 b. 300 c. 700
8. Sandwiches sold together
   = 238 + 415 = 653 sandwiches
9. 5
10. a. b.

Revision 2

1. a. 754 b. 3 c. $\frac{2}{3}$
   d. 9 e. 515
2. 23 + 14 + 39 + 16
   = (23 + 14) + (39 + 16)
   = 37 + 55 = 92
3. 5 kg
4. 90
5.
6. 

7. a. 171 b. 115
8. The money left = 354 – 160
   = 194 pounds
9. a. 19 , 21 , 23
   b. 59 , 49 , 39
   c. 20 , 25 , 30
10. 3 + 3 + 3 + 3

Revision 3

1. a. 4 b. 3
   c. 70 d. 26
2. $\frac{2}{3}$
3. a. 338 b. 579
4. cylinder , 0 , 0 , 2
5. a. 233 b. 188
6. 10
7. Order is : 291 , 219 , 192 , 129
8. a. Eighty b. Five
   c. Fourteen d. Sixty
9. 03 : 30 , P.M.
10. The weight in all = 67 + 85
    = 152 kilograms

Answers of Chapter 1

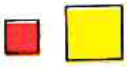
Exercise 1

1 a.

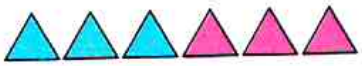
b.

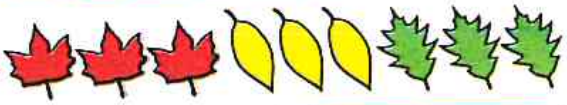
c. 12

d.

e. 

f.

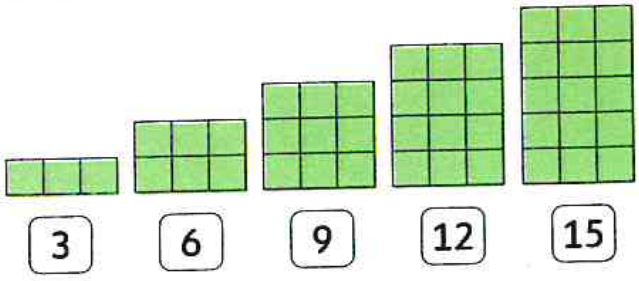
g. 

h. 

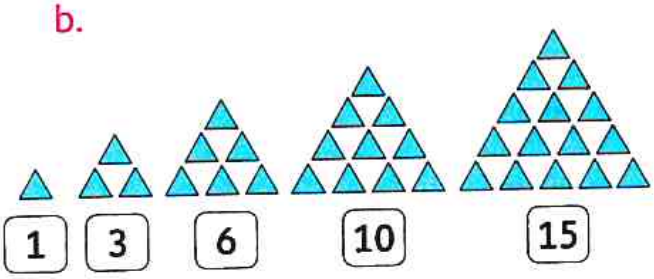
2
a. 28 , 30 $\boxed{+2}$
b. 50 , 45 $\boxed{-5}$
c. 43 , 33 $\boxed{-10}$
d. 56 , 67 $\boxed{+11}$
e. 61 , 71 $\boxed{+10}$
f. 37 , 34 $\boxed{-3}$

3
a. 80 , 90 , 100 , 110 , 120
b. 60 , 62 , 64 , 66 , 68
c. 23 , 19
d. 58 , 48
e. 49 , 53
f. 140 , 145
g. 75 , 70
h. 42 , 38
i. 58 , 70
j. 68 , 79

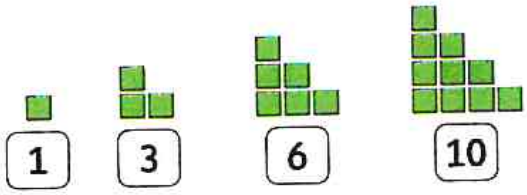
4 a.



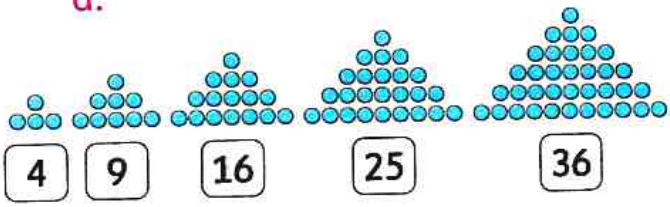
b.



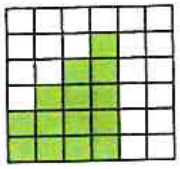
c.

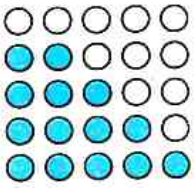


d.



5 a.

b. 

c. 

6
a. 44 , 42
b. 16 , 22
c. 8 , 13
d.

Exercise 2

1
a. 3 , 8 , 11
b. 11 , 4 , 15

2 a.

Heads	Tails
𝍸 II	𝍸 𝍸
	III

• 20

b.

Heads	Tails
𝍸 𝍸	𝍸 𝍸
II	𝍸 III

• 30

3

Shirt color

Color	Tally	Number
Blue	𝍸 𝍸	10
Red	𝍸 II	7
Green	III	3

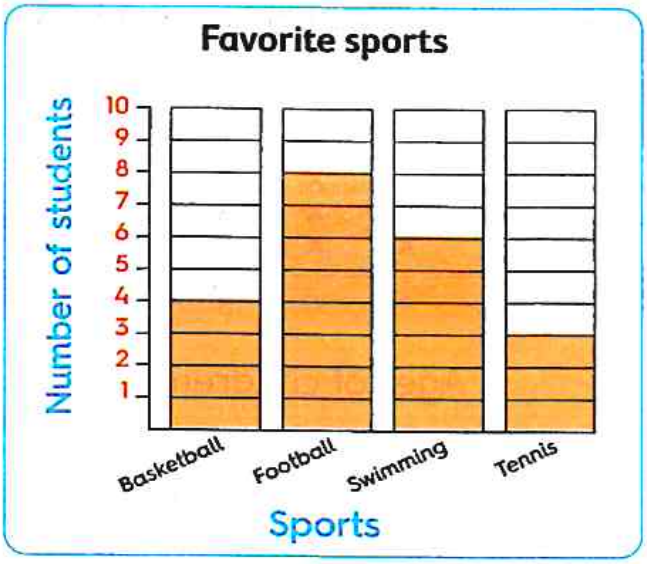
a. 10 b. Blue

c. Green , Red , Blue

4

Favorite Sports

Sports	Number of students	Number
Basketball	IIII	4
Football	𝍸 III	8
Swimming	𝍸 I	6
Tennis	III	3

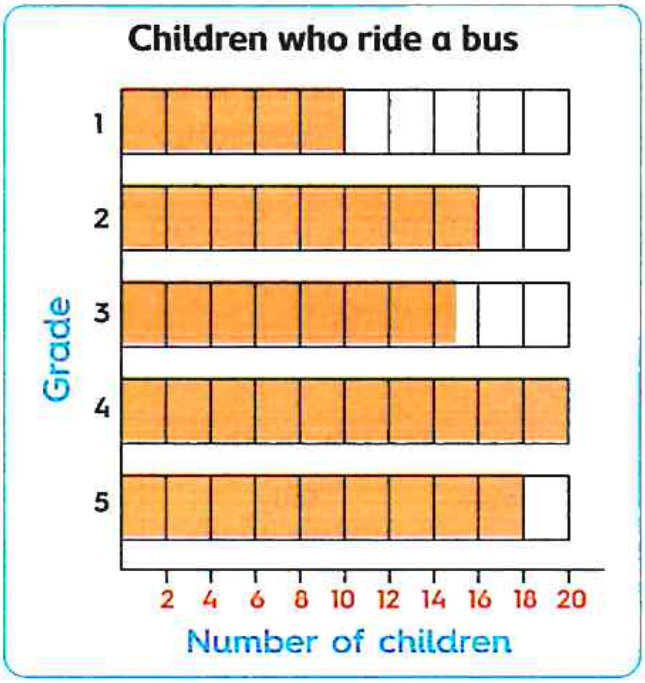


a. 8 b. Football c. Tennis

5

Children who ride a bus

Grade	Number of children	Number
1	𝍸 𝍸	10
2	𝍸 𝍸 𝍸 I	16
3	𝍸 𝍸 𝍸	15
4	𝍸 𝍸 𝍸 𝍸	20
5	𝍸 𝍸 𝍸 III	18



1. a. 20 b. 15

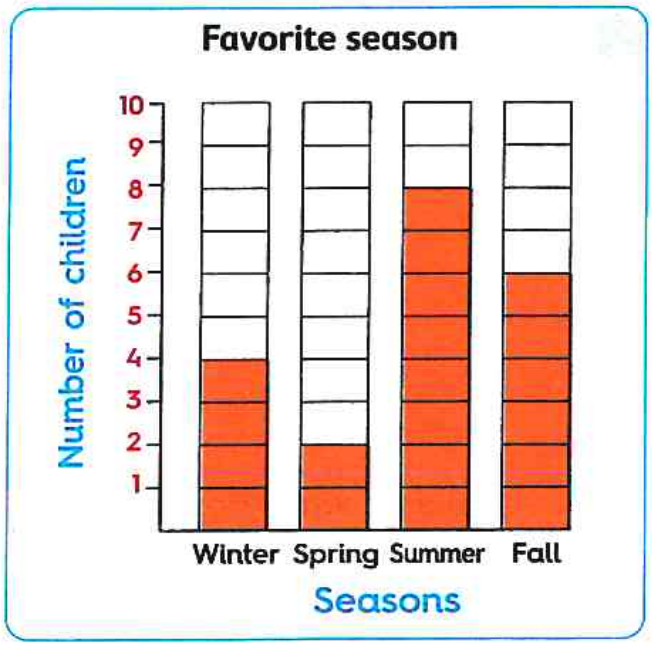
c. Grade 4 d. Grade 1

2. a. ✓ b. ✗ c. ✓ d. ✗

6

Our favorite season

Season	Tally	Number
Winter	IIII	4
Spring	II	2
Summer	𝍸 III	8
Fall	𝍸 I	6

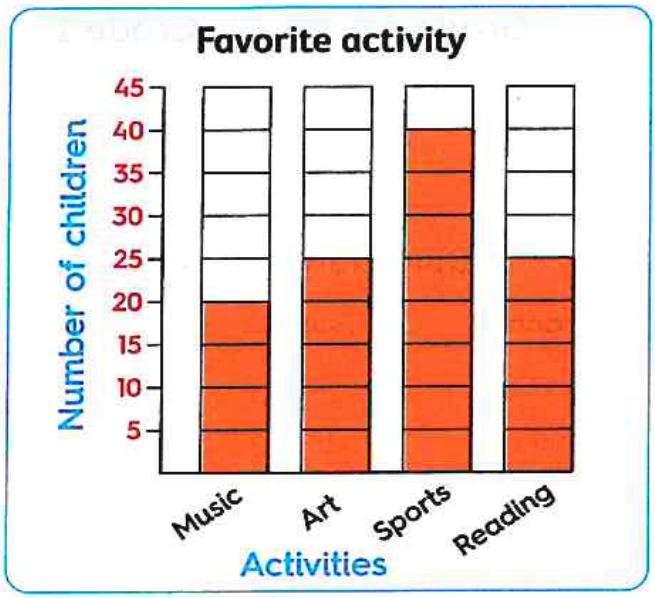


1. a. Summer b. Spring c. 20
2. a. ✓ b. ✗ c. ✓

7

Favorite activity

Vegetable	Tally	Number
Music	卌 卌 卌 卌	20
Art	卌 卌 卌 卌 卌	25
Sports	卌 卌 卌 卌 卌 卌 卌 卌	40
Reading	卌 卌 卌 卌 卌	25



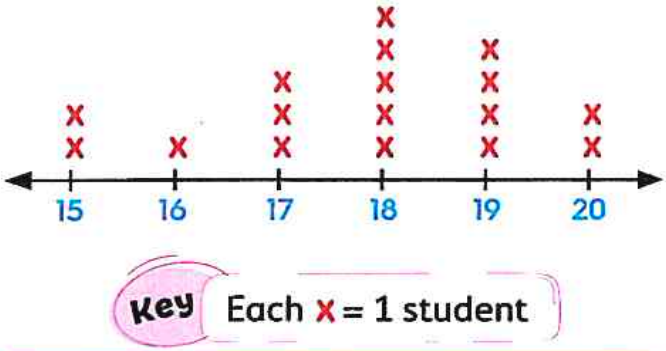
1. a. 20 b. Music c. Sports
   d. 65 e. 15
2. a. = b. >

Exercise 3

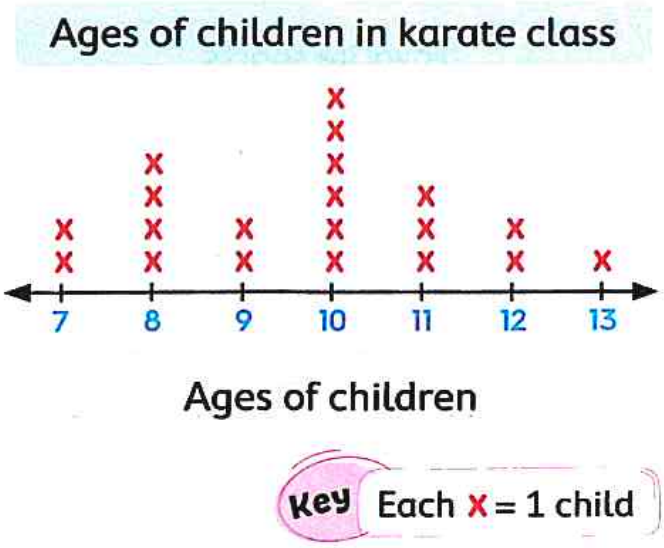
1 a. 6 b. 3 c. 9

2 a. 4 students b. 5 students
c. 3 students d. 6 students
e. 21 students f. 7 students

3



4

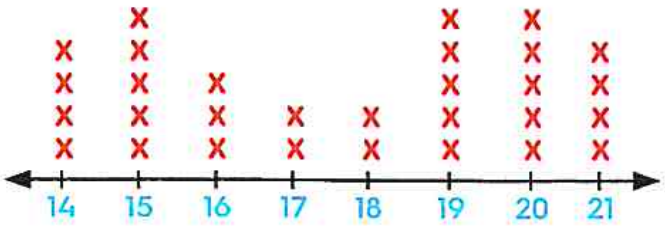


a. 3 b. 10 c. 20

5

Hours	14	15	16	17	18	19	20	21
Tally	IIII	~~IIII~~	III	II	II	~~IIII~~	~~IIII~~	IIII
Frequency	4	5	3	2	2	5	5	4

Study hours per week



Number of hours

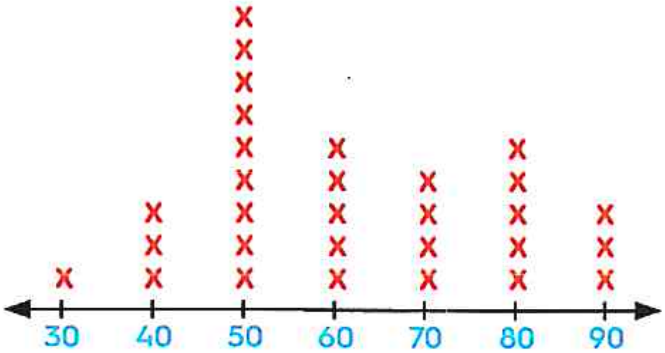
Key: Each x stands for 1 student

a. 2 students b. 4 students
c. 5 students d. 2 students

6

Saved money	30	40	50	60	70	80	90
Frequency	1	3	9	5	4	5	3

Money saved in a week



Saved money

Key: Each x stands for 1 child

1. a. 3 b. 1 c. 50
2. a. ✓ b. ✗ c. ✗

Exercise 4

1 a. centimeter b. millimeter
c. meter d. meter
e. centimeter f. meter

2 a. 5 b. 6 c. 7 d. 34
e. 3 f. 32 g. 43 h. 51
i. 4 j. 4 k. 4

3 3 , 4 , 2 , 5
The order is : 5 , 4 , 3 , 2

4 a. ⟶ 4 b. ⟶ 3
c. ⟶ 1 d. ⟶ 2

5 a. ✗ b. ✓ c. ✗ d. ✓ e. ✗

6 a. 30 b. 240 c. 7 d. 50
e. 500 f. 2 g. 6 h. 70

7 a. 70 b. 30 c. 400 d. 800
e. 180 f. 500 g. 5 h. 3
i. 4 j. 20 k. 100 l. 1
m. 70 n. 60 o. 800 p. 600
q. 8 r. 9 s. 3 , 50 t. 7 , 5

8 a. ✓ b. ✓ c. ✓ d. ✗ e. ✓ f. ✗

9 a. > b. = c. < d. >
e. > f. = g. < h. =
i. < j. < k. > l. <
m. < n. <

10 90 cm.

11 a. 30 b. 20 c. 70
d. 6 e. 200 f. 5

Answers of Chapter 2

Exercise 5

1

Number	Thousands	Hundreds	Tens	Ones
a. 5,839	5	8	3	9
b. 7,256	7	2	5	6
c. 2,103	2	1	0	3
d. 4,360	4	3	6	0
e. 5,018	5	0	1	8
f. 918	0	9	1	8

2 a. 3,000 b. 4,000 c. 9
d. 70 e. 0 f. 100
g. 60 h. 30

3 a. Thousands , 3,000
b. Thousands , 6,000
c. Ones , 2 d. Ones , 3
e. Hundreds , 600
f. Thousands , 1,000
g. Tens , 0 h. Hundreds , 500
i. Thousands , 5,000
j. Tens , 80 k. Hundreds , 0
l. Thousands , 2,000

4 a. 3,000 + 200 + 80 + 4
b. 5,000 + 100 + 20 + 3
c. 9,000 + 800 + 50 + 6
d. 8,000 + 30 + 2
e. 7,000 + 500 + 4
f. 6,000 + 800 g. 4,000 + 1

5 a. 2,634 b. 6,871 c. 4,593
d. 3,309 e. 6,021 f. 1,110
g. 7,650 h. 9,005 i. 1,900
j. 5,040

6 a. 8,000 + 400 + 90 + 1 = 8,491
b. 2,000 + 100 + 70 + 5 = 2,175
c. 3,000 + 500 + 20 + 7 = 3,527
d. 9,000 + 700 + 2 = 9,702
e. 1,000 + 40 + 8 = 1,048
f. 4,000 + 500 + 3 = 4,503
g. 5,000 + 700 + 10 + 6 = 5,716
h. 3,000 + 40 + 6 = 3,046

7 a. 2,000 b. 3,003 c. 20 , 5
d. 40 e. 400
f. 70 , 700 , 7,000 g. 80 , 3,000
h. 4,000 , 6 i. 7 , 6 , 4 , 9
j. 5 , 3 , 0 , 2

8 a. 5,378 b. 2,531 c. 9,406
d. 1,054 e. 3,002 f. 4,040
g. 2,017 h. 8,500

9 a. Three thousand , seven hundred fifty-one
b. Four thousand , four
c. Seven thousand , two hundred
d. Six thousand , five hundred ten
e. Five thousand , three hundred seventeen
f. Eight thousand , eighty
g. Five thousand , three hundred twenty-six
h. Two thousand , twenty

10 a. 6 b. 20 c. 700 d. 8
e. 5 f. 90 g. 300 h. 80
i. 4,000 j. 8,000 k. 40 l. 800

11 a. < b. < c. < d. >
e. < f. > g. > h. >
i. = j. < k. < l. >
m. < n. = o. =

12 a. 9,843 , 3,489 b. 5,432 , 2,345
c. 8,651 , 1,568 d. 7,544 , 4,457
e. 7,320 , 2,037 f. 9,430 , 3,049

13 a. The order is : 987 , 6,978 , 6,987 , 7,896
b. The order is : 3,521 , 4,782 , 5,336 , 9,835
c. The order is : 993 , 1,281 , 2,990 , 4,621 , 6,170
d. The order is : 784 , 4,278 , 4,279 , 7,249 , 7,942

14 a. The order is : 5,300 , 3,805 , 1,500 , 1,050
b. The order is : 9,541 , 7,321 , 6,541 , 941
c. The order is : 5,719 , 3,010 , 2,605 , 1,938 , 456
d. The order is : 6,204 , 5,441 , 3,009 , 2,917 , 708

15 a. Hundreds b. 9,000 c. 9,999
d. 1,000 e. 9,876 f. 1,023
g. 1,111 h. 9,998

16 a. ✓ b. ✓ c. ✗ d. ✗
e. ✓ f. ✗ g. ✗

17 The numbers are : 5,432 , 5,423 and 5,342 (Answers may vary)

18 2,319

Exercise 6

1 a. 65,810 b. 308,001
c. 921,348 d. 200,720
e. 102,421 f. 31,065
g. 85,609 h. 407,105

2 a. 3,000 b. 80,000 c. 50
d. 200 e. 500,000 f. 90,000
g. 0 h. 1,000

3 a. Ten thousands , 60,000
b. Ten thousands , 80,000
c. Hundred thousands , 700,000
d. Hundred thousands , 100,000
e. Hundreds , 300
f. Ten thousands , 40,000
g. Thousands , 0
h. Thousands , 1,000
i. Thousands , 9,000
j. Hundreds , 0

4 a. Hundred thousands
b. 700,000 c. Ten thousands
d. 0 e. 5 f. 5
g. Hundred thousands
h. Ten thousands

5 a. 31,574 b. 278,621
c. 308,010 d. 504,030
e. 97,205 f. 330,300
g. 39,415 h. 68,092
i. 300,928 j. 500,505

6
a. 90,000 + 5,000 + 600 + 80 + 3
b. 500,000 + 40,000 + 3,000 + 800 + 70 + 6
c. 60,000 + 2,000 + 300 + 10 + 9
d. 700,000 + 60,000 + 2,000 + 300 + 10 + 9
e. 10,000 + 5,000 + 700 + 80
f. 200,000 + 30,000 + 40 + 5
g. 70,000 + 100 + 10 + 6
h. 800,000 + 10,000 + 2,000 + 4
i. 400,000 + 40

7
a. 90,000
b. 500,000 , 1,000
c. 8,000
d. 40,000
e. 600,000 , 1
f. 100,000 , 2,000
g. 210,564
h. 35,029
i. 25,798
j. 905,017
k. 16,439

8
a. Two hundred thirty-five thousand , seven hundred ninety-one
b. Nine hundred four thousand , six
c. Seventy-one thousand , seventy-one
d. Sixty thousand , six hundred six
e. Seven hundred forty-six thousand , ninety
f. Fifty-four thousand , three hundred twenty-nine
g. Seven hundred nine thousand , fifty.
h. Eighty thousand , six hundred thirty-six

9
a. → 50,000
b. → Hundred thousands
c. → Ten thousands
d. → 500,000
e. → 505,055
f. → 550,550

10
a. <
b. >
c. >
d. >
e. <
f. <
g. =
h. =
i. <
j. =
k. >
l. >
m. <
n. =
o. <
p. <
q. =

11
a. 87,632 , 23,678
b. 864,321 , 123,468
c. 97,210 , 10,279
d. 653,210 , 102,356
e. 87,400 , 40,078
f. 975,310 , 103,579
g. 975,421 , 124,579
h. 973,110 , 101,379

12
a. **The order is :**
9,372 , 11,493 , 98,505 , 132,567
b. **The order is :**
27,256 , 27,652 , 125,762 , 152,567
c. **The order is :**
8,339 , 83,986 , 83,987 , 833,322 , 833,400
d. **The order is :**
93,259 , 96,547 , 932,599 , 965,478 , 965,852

e. **The order is :**
4,720 , 24,270 , 24,571 , 724,072 , 724,172

f. **The order is :**
100,000 , 102,345 , 111,111 , 987,654 , 999,999

13 a. **The order is :**
103,002 , 23,001 , 21,300 , 3,201

b. **The order is :**
101,559 , 59,002 , 21,052 , 11,112

c. **The order is :**
773,550 , 637,961 , 618,765 , 81,236 , 38,472

d. **The order is :**
914,231 , 914,230 , 12,606 , 12,605 , 9,380

e. **The order is :**
500,007 , 500,000 , 100,000 , 99,999 , 3,428

14 a. ✗ b. ✓ c. ✓
d. ✗ e. ✗ f. ✗
g. ✗ h. ✓

15 99,999 , 716,012 , 50,214 , 321,000 , 200,100

16 111,111 , 200,000 , 20,000 , 13,699 , 9,216

17 4

18 93,210 (Answer may vary)

Exercise 7

1 a. 4 , 4 b. 2 , 7
c. 6 , 3 d. 1 , 5
e. 5 , 3 f. 4 , 4

2 a. 2 rows of 3
x x x
x x x

b. 4 rows of 2
x x
x x
x x
x x

c. 1 row of 6
x x x x x x

d. 1 column of 5
x
x
x
x
x

e. 3 columns of 4
x x x
x x x
x x x
x x x

f. 7 columns of 2
x x x x x x x
x x x x x x x

3 a. 12 b. 10
c. 14 d. 18

4 a. 2 , 5 , 10 b. 7 , 1 , 7
c. 5 , 3 , 15 d. 4 , 3 , 12
e. 3 , 5 , 15 f. 6 , 3 , 18

5 a. 4 , 3 , 12 b. 5 , 3 , 15
c. 1 , 5 , 5 d. 6 , 3 , 18

6 a. Repeated addition : 4 + 4 + 4 = 12
Skip counting : 4 , 8 , 12

b. Repeated addition : 5 + 5 = 10
Skip counting : 5 , 10

c. Repeated addition : $1 + 1 + 1 = 3$
Skip counting : 1 , 2 , $\boxed{3}$

d. Repeated addition : $3 + 3 = 6$
Skip counting : 3 , $\boxed{6}$

e. Repeated addition : $7 + 7 + 7 = 21$
Skip counting : 7 , 14 , $\boxed{21}$

f. Repeated addition : $4 + 4 + 4 + 4 = 16$
Skip counting : 4 , 8 , 12 , $\boxed{16}$

7 $5 + 5 + 5 + 5 = 20$

Exercise 8

1 a. $2 + 2 + 2 + 2 + 2 = 10$, $5 \times 2 = 10$

b. $4 + 4 = 8$, $2 \times 4 = 8$

c. $3 + 3 + 3 = 9$, $3 \times 3 = 9$

d. $5 + 5 + 5 + 5 = 20$, $4 \times 5 = 20$

e. $4 + 4 + 4 + 4 + 4 + 4 = 24$, $6 \times 4 = 24$

f. $6 + 6 + 6 + 6 + 6 = 30$, $5 \times 6 = 30$

2 a. 2 rows of 5 , $2 \times 5 = 10$

b. 4 rows of 5 , $4 \times 5 = 20$

c. 3 rows of 6 , $3 \times 6 = 18$

d. 5 columns of 2 , $5 \times 2 = 10$

e. 2 columns of 4 , $2 \times 4 = 8$

f. 5 columns of 3 , $5 \times 3 = 15$

g. 4 columns of 3 , $4 \times 3 = 12$

h. 4 rows of 1 , $4 \times 1 = 4$

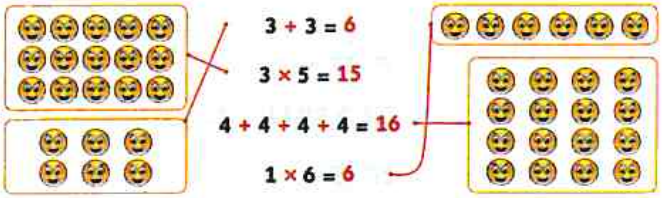
i. 3 columns of 4 , $3 \times 4 = 12$

j. 3 rows of 3 , $3 \times 3 = 9$

k. 5 rows of 4 , $5 \times 4 = 20$

l. 6 columns of 4 , $6 \times 4 = 24$

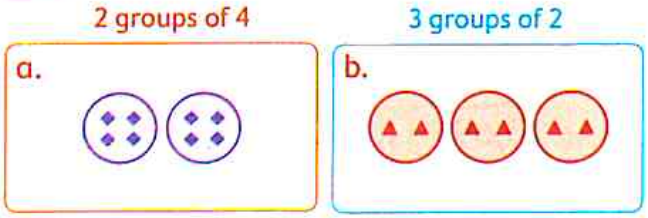
3



4 a. 4 , 12 b. 3 , 21
c. 5 , 20 d. 5 , 5 , 5 , 5 , 20
e. 6 , 3 , 18 f. 4 , 9 , 36
g. 6 , 1 , 6 h. 4 , 8 , 32
i. 7 , 7 , 7 , 7 , 28 j. 9 , 9 , 18
k. 2 , 2 , 2 , 6 l. 6 , 6 , 6 , 6 , 24
m. 6 , 18
n. 5 , 5 , 5 , 5 , 5 , 25
o. 3 , 24 p. 5 , 10

5 a. 5 b. 4×2 c. 9
d. 3 e. 7

6



$4 + 4 = 8$
$2 \times 4 = 8$

$2 + 2 + 2 = 6$
$3 \times 2 = 6$

3 groups of 3

c.

3 + 3 + 3 = 9
3 × 3 = 9

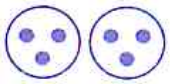
4 groups of 5

d.

5 + 5 + 5 + 5 = 20
4 × 5 = 20

2 groups of 3

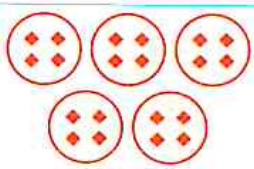
e.



3 + 3 = 6
2 × 3 = 6

5 groups of 4

f.



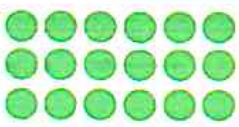
4 + 4 + 4 + 4 + 4 = 20
5 × 4 = 20

7

a.

5 × 2 = 10

b.



3 × 6 = 18

c.

5 × 5 = 25

d.

2 × 8 = 16

e.

4 × 7 = 28

Exercise 9

1

1. 5 rows of 3 columns
5 × 3 = 15

3 rows of 5 columns
3 × 5 = 15

5 × 3 = 3 × 5

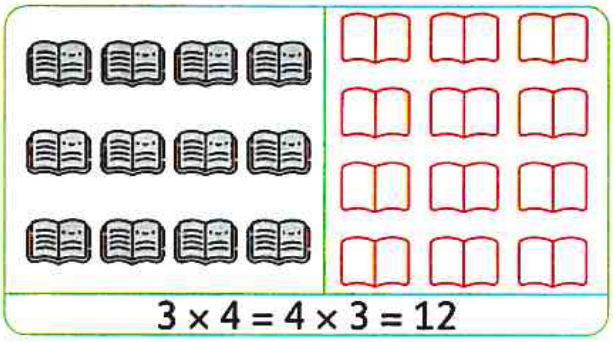
b. 3 rows of 6 columns
3 × 6 = 18

6 rows of 3 columns
6 × 3 = 18

3 × 6 = 6 × 3

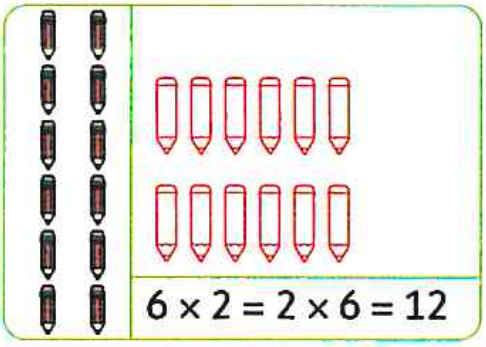
2

a.



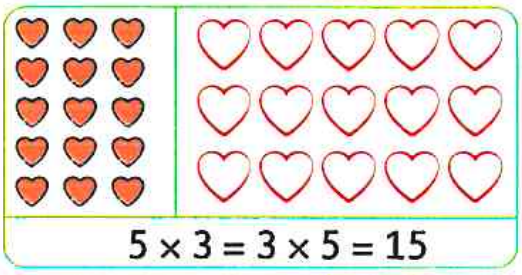
3 × 4 = 4 × 3 = 12

b.



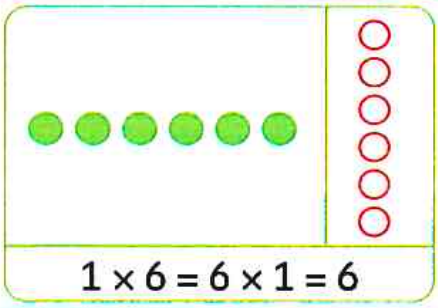
6 × 2 = 2 × 6 = 12

c.



5 × 3 = 3 × 5 = 15

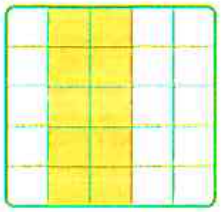
d.



1 × 6 = 6 × 1 = 6

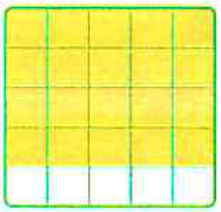
3

b.



5 × 2 = 10

c.

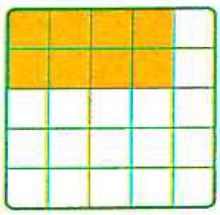


4 × 5 = 20

4

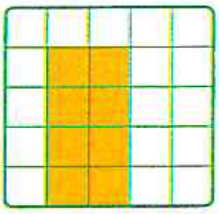
b.

2 rows of 4



$2 \times 4 = 8$

4 rows of 2

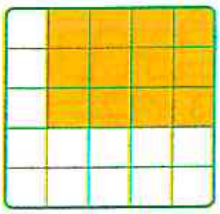


$4 \times 2 = 8$

So , $2 \times 4 = 4 \times 2 = 8$

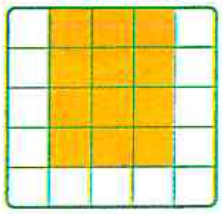
c.

3 rows of 4



$3 \times 4 = 12$

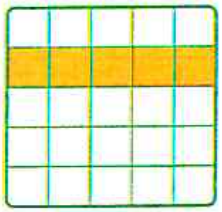
4 rows of 3



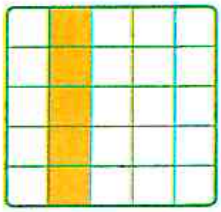
$4 \times 3 = 12$

So , $3 \times 4 = 4 \times 3 = 12$

d.



$1 \times 5 = 5$



$5 \times 1 = 5$

So , $1 \times 5 = 5 \times 1 = 5$

5

a. 2 groups of 3 — 3 groups of 2

$2 \times 3 = 6$ — $3 \times 2 = 6$

$2 \times 3 = 3 \times 2$

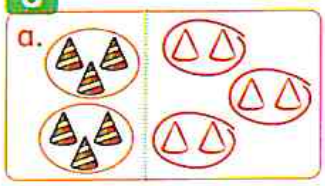
b. 6 groups of 4 — 4 groups of 6

$6 \times 4 = 24$ — $4 \times 6 = 24$

$6 \times 4 = 4 \times 6$

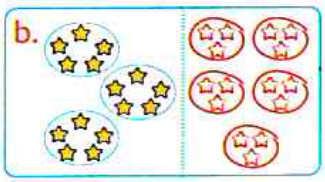
6

a.



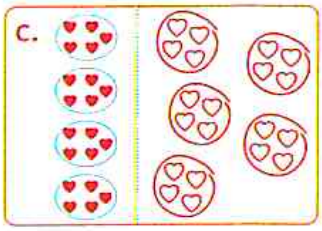
$2 \times 3 = 3 \times 2$

b.



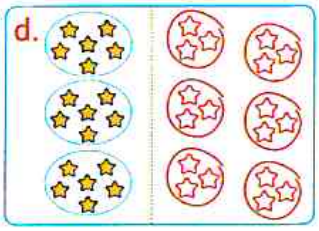
$3 \times 5 = 5 \times 3$

c.



$4 \times 5 = 5 \times 4$

d.



$3 \times 6 = 6 \times 3$

7

a. 3 b. 9 c. 7

d. 6 e. 7 f. 1 , 4

g. 4 , 6 h. 2 , 3 i. 4 , 4

j. 9 , 9

8

a. ✓ b. ✗ c. ✓

d. ✓ e. ✗ f. ✗

9

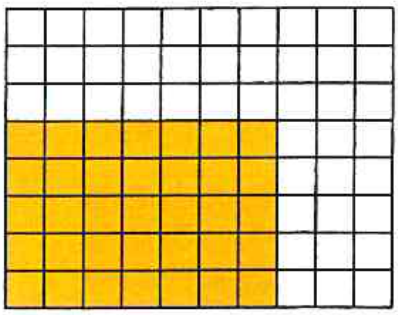
a. → 4×3

b. → 5×2

c. → 3×5

d. → $5 + 0$

10



45 blocks.

Answers of Chapter 3

Exercise 10

1
a. ⟶ $3 \times 5 = 15$
b. ⟶ $3 \times 2 = 6$
c. ⟶ $6 \times 2 = 12$
d. ⟶ $2 \times 5 = 10$

2
a. $2 \times 5 = 10$ pieces
b. $4 \times 5 = 20$ rolls
c. $6 \times 3 = 18$ cookies
d. $8 \times 3 = 24$ pencils
e. $2 \times 9 = 18$ hours
f. $4 \times 8 = 32$ oranges
g. $6 \times 4 = 24$ legs
h. $5 \times 7 = 35$ balls
$4 \times 7 = 28$ balls
Number of balls
$= 35 + 28 = 63$ balls

3
Answer may very based on your own story

Sample answer :
Vera has 4 bags each bag has 5 toys.
How many toys are there in all ?
$4 \times 5 = 20$ toys

4
Ways of solving may vary

Skip counting by 13 s
13 , 26 , 39 , 52 , 65 , 78 , 91
104 , 117 , 130 , 143 , 156
then, $12 \times 13 = 156$

Exercise 11

1

$2 \times 0 = 0$	$3 \times 0 = 0$
$2 \times 1 = 2$	$3 \times 1 = 3$
$2 \times 2 = 4$	$3 \times 2 = 6$
$2 \times 3 = 6$	$3 \times 3 = 9$
$2 \times 4 = 8$	$3 \times 4 = 12$
$2 \times 5 = 10$	$3 \times 5 = 15$
$2 \times 6 = 12$	$3 \times 6 = 18$
$2 \times 7 = 14$	$3 \times 7 = 21$
$2 \times 8 = 16$	$3 \times 8 = 24$
$2 \times 9 = 18$	$3 \times 9 = 27$
$2 \times 10 = 20$	$3 \times 10 = 30$

$4 \times 0 = 0$	$2 \times 7 = 14$
$4 \times 1 = 4$	$2 \times 5 = 10$
$4 \times 2 = 8$	$2 \times 2 = 4$
$4 \times 3 = 12$	$2 \times 3 = 6$
$4 \times 4 = 16$	$2 \times 9 = 18$
$4 \times 5 = 20$	$2 \times 1 = 2$
$4 \times 6 = 24$	$2 \times 4 = 8$
$4 \times 7 = 28$	$2 \times 8 = 16$
$4 \times 8 = 32$	$2 \times 6 = 12$
$4 \times 9 = 36$	$2 \times 10 = 20$
$4 \times 10 = 40$	$2 \times 0 = 0$

$3 \times 5 = 15$	$4 \times 3 = 12$
$3 \times 1 = 3$	$4 \times 9 = 36$
$3 \times 7 = 21$	$4 \times 6 = 24$
$3 \times 0 = 0$	$4 \times 1 = 4$
$3 \times 9 = 27$	$4 \times 10 = 40$
$3 \times 2 = 6$	$4 \times 0 = 0$
$3 \times 10 = 30$	$4 \times 2 = 8$
$3 \times 4 = 12$	$4 \times 7 = 28$
$3 \times 6 = 18$	$4 \times 4 = 16$
$3 \times 3 = 9$	$4 \times 8 = 32$
$3 \times 8 = 24$	$4 \times 5 = 20$

2 a. 21 b. 8 c. 16 d. 24
e. 2 f. 15 g. 4 h. 12
i. 28 j. 12 k. 16 l. 15
m. 20 n. 40 o. 24 p. 32
q. 6 r. 14 s. 12 t. 18
u. 2 v. 10 w. 18 x. 30
y. 9 z. 6

3 a. 32 b. 20 c. 4 d. 27
e. 20 f. 8 g. 0 h. 18
i. 3 j. 3 k. 27 l. 8
m. 0 n. 14 o. 20

4 a. ✗ b. ✓ c. ✓ d. ✗
e. ✗ f. ✓ g. ✓ h. ✗
i. ✓ j. ✓ k. ✗ l. ✓
m. ✓ n. ✗ o. ✓ p. ✓

5 a. → $5 + 5$ b. → 3×2
c. → $6 + 3$ d. → 3×6
e. → 6×2

6 a. 4×3 , 2×6
b. 8×3 , 4×6
c. 3×6 , 9×2
d. 4×0 , 0×3

7 a. 5 b. 10 c. 9 d. 6
e. 9 f. 9 g. 0 h. 2
i. 3 j. 4 k. 8 l. 7
m. 4 n. 8 o. 0 p. 1

8 a. > b. > c. > d. =
e. = f. > g. = h. <
i. < j. < k. = l. =
m. < n. = o. > p. <
q. = r. <

9 a. $4 \times 9 = 36$ L.E.
b. $3 \times 10 = 30$ flowers
c. $2 \times 8 = 16$ lions

10 a. 24 , 32 , 50 , 44
b. 18 , 33
c. 16 , 12 , 20
d. 2 , 4 , 6 , 8 , 10 , 12 , 14 , 16 , 18 , 20 , 22 , 24 , 26 , 28 , 30
e. 32 , 34 , 36 , 38 , 40 , 42 , 44 , 46 , 48 , 50 , 52 , 54

f. 3 , 6 , 9 , 12 , 15 , 18 , 21 , 24 , 27 , 30 , 33 , 36 , 39

g. 42 , 45 , 48

h. 4 , 8 , 12 , 16 , 20 , 24 , 28 , 32 , 36 , 40 , 44 , 48

i. 42 , 48 , 54 (Answers may vary)

j. 84 , 90 , 96

11 a. + b. × c. +
d. + e. × f. +

12 1 , 2 and 3

Exercise 12

1

$5 \times 0 = 0$	$6 \times 0 = 0$
$5 \times 1 = 5$	$6 \times 1 = 6$
$5 \times 2 = 10$	$6 \times 2 = 12$
$5 \times 3 = 15$	$6 \times 3 = 18$
$5 \times 4 = 20$	$6 \times 4 = 24$
$5 \times 5 = 25$	$6 \times 5 = 30$
$5 \times 6 = 30$	$6 \times 6 = 36$
$5 \times 7 = 35$	$6 \times 7 = 42$
$5 \times 8 = 40$	$6 \times 8 = 48$
$5 \times 9 = 45$	$6 \times 9 = 54$
$5 \times 10 = 50$	$6 \times 10 = 60$

$7 \times 0 = 0$
$7 \times 1 = 7$
$7 \times 2 = 14$
$7 \times 3 = 21$
$7 \times 4 = 28$
$7 \times 5 = 35$
$7 \times 6 = 42$
$7 \times 7 = 49$
$7 \times 8 = 56$
$7 \times 9 = 63$
$7 \times 10 = 70$

2

$5 \times 6 = 30$	$6 \times 4 = 24$
$5 \times 2 = 10$	$6 \times 10 = 60$
$5 \times 1 = 5$	$6 \times 0 = 0$
$5 \times 8 = 40$	$6 \times 3 = 18$
$5 \times 0 = 0$	$6 \times 1 = 6$
$5 \times 3 = 15$	$6 \times 6 = 36$
$5 \times 10 = 50$	$6 \times 5 = 30$
$5 \times 7 = 35$	$6 \times 8 = 48$
$5 \times 5 = 25$	$6 \times 2 = 12$
$5 \times 4 = 20$	$6 \times 7 = 42$
$5 \times 9 = 45$	$6 \times 9 = 54$

7×8	$= 56$
7×1	$= 7$
7×9	$= 63$
7×0	$= 0$
7×2	$= 14$
7×10	$= 70$
7×6	$= 42$
7×3	$= 21$
7×5	$= 35$
7×4	$= 28$
7×7	$= 49$

3 a. 49 b. 30 c. 24
d. 21 e. 48 f. 70
g. 30 h. 10 i. 40
j. 20 k. 5 l. 45
m. 28 n. 35 o. 36
p. 42 q. 54 r. 56
s. 35 t. 14 u. 25
v. 0 w. 18 x. 42
y. 63 z. 15

4 a. 50 b. 70 c. 10
d. 25 e. 30 f. 15
g. 56 h. 60 i. 35
j. 42

5 a. < b. < c. <
d. < e. > f. >
g. > h. > i. >
j. < k. < l. =
m. < n. < o. >
p. > q. > r. <
s. = t. < u. <
v. =

6 a. 3×10 b. 27
c. 8×3 d. 35
e. 0 f. $1 - 1$
g. $40 + 5$ h. $3 + 10$
i. 6×4 j. 6×8
k. 5×8

7 a. ⟶ 2 b. ⟶ 1
c. ⟶ 3 d. ⟶ 5
e. ⟶ 4

8 a. ✓ b. ✗ c. ✓
d. ✓ e. ✓ f. ✓
g. ✓ h. ✗ i. ✗
j. ✓ k. ✓ l. ✓

9 a. Yes b. Yes c. No
d. Yes e. Yes f. No

10 a. $6 \times 2 = 12$ kg
b. $8 \times 5 = 40$ pupils
c. $7 \times 4 = 28$ pounds
d. $5 \times 9 = 45$ oranges

11 a. 30 , 60 and 90
b. 35 , 70 and 105

12 The number of multiples is 0

Exercise 13

1

8×0	$= 0$
8×1	$= 8$
8×2	$= 16$
8×3	$= 24$
8×4	$= 32$
8×5	$= 40$
8×6	$= 48$
8×7	$= 56$
8×8	$= 64$
8×9	$= 72$
8×10	$= 80$

9×0	$= 0$
9×1	$= 9$
9×2	$= 18$
9×3	$= 27$
9×4	$= 36$
9×5	$= 45$
9×6	$= 54$
9×7	$= 63$
9×8	$= 72$
9×9	$= 81$
9×10	$= 90$

10×0	$= 0$
10×1	$= 10$
10×2	$= 20$
10×3	$= 30$
10×4	$= 40$
10×5	$= 50$
10×6	$= 60$
10×7	$= 70$
10×8	$= 80$
10×9	$= 90$
10×10	$= 100$

2

8×3	$= 24$
8×5	$= 40$
8×9	$= 72$
8×0	$= 0$
8×7	$= 56$
8×2	$= 16$
8×4	$= 32$
8×6	$= 48$
8×8	$= 64$
8×1	$= 8$
8×10	$= 80$

9×8	$= 72$
9×2	$= 18$
9×6	$= 54$
9×10	$= 90$
9×4	$= 36$
9×0	$= 0$
9×7	$= 63$
9×3	$= 27$
9×9	$= 81$
9×5	$= 45$
9×1	$= 9$

10×0	$= 0$
10×3	$= 30$
10×6	$= 60$
10×9	$= 90$
10×1	$= 10$
10×4	$= 40$
10×7	$= 70$
10×5	$= 50$
10×2	$= 20$
10×8	$= 80$
10×10	$= 100$

3 a. 56 b. 54 c. 40
d. 0 e. 45 f. 100
g. 16 h. 81 i. 60
j. 32 k. 9 l. 70
m. 8 n. 72 o. 24
p. 36 q. 64 r. 80
s. 80 t. 63 u. 40
v. 72 w. 48 x. 50
y. 90 z. 30

4 a. 40 b. 100 c. 20
d. 45 e. 40 f. 30
g. 48 h. 63 i. 10
j. 40 k. 90 l. 80

5 a. < b. < c. <
d. < e. > f. =
g. = h. > i. <
j. = k. > l. <
m. < n. > o. >
p. < q. < r. =
s. < t. > u. =
v. < w. < x. =
y. = z. <

6 a. 4×10 b. 43
c. 6×10
d. $10 + 10 + 10 + 10 + 10$
e. 45 f. 2
g. 0 h. $1 - 1$
i. 90 j. 0×12
k. 3×10 l. 9×10
m. 8×0

7 a. ⟶ 4 b. ⟶ 3
c. ⟶ 5 d. ⟶ 1
e. ⟶ 2

8 a. ✓ b. ✓ c. ✗
d. ✗ e. ✓ f. ✓
g. ✗ h. ✓ i. ✗
j. ✗ k. ✗ l. ✗
m. ✗ n. ✓

9 a. 70 , 80 and 90
b. 100 , 110 and 120
c. 10 , 20 and 30
(Answers may vary)

10 a. $8 \times 9 = 72$ pieces
b. $10 \times 9 = 90$ pounds
c. $8 \times 6 = 48$ carriages

11 No , the multiples of 10 its ones digit is 0

Review on the multiples

1 1. 28 2. 45 3. 63
4. 64 5. 24 6. 30
7. 36 8. 48 9. 40
10. 72 11. 24 12. 6

13. 0	14. 48	15. 81
16. 35	17. 18	18. 56
19. 54	20. 30	21. 63
22. 42	23. 16	24. 50
25. 32	26. 45	27. 49
28. 90	29. 56	30. 54
31. 0	32. 35	33. 36
34. 72	35. 28	36. 3
37. 24	38. 21	39. 36
40. 25	41. 70	42. 30

2

1. 72	2. 27	3. 63
4. 6	5. 28	6. 32
7. 36	8. 49	9. 30
10. 40	11. 50	12. 21
13. 35	14. 45	15. 54
16. 72	17. 63	18. 36
19. 0	20. 32	21. 70
22. 24	23. 80	24. 0
25. 20	26. 40	27. 18
28. 42	29. 24	30. 24
31. 54	32. 16	33. 35
34. 0	35. 30	36. 14
37. 56	38. 42	39. 81
40. 48	41. 36	42. 4

Exercise 14

1

a. 1×16, 16×1, 2×8, 8×2, 4×4

Factors are : 1, 2, 4, 8 and 16

b. 1×12, 12×1, 2×6, 6×2, 3×4, 4×3

Factors are : 1, 2, 3, 4, 6 and 12

c. 1×18, 18×1, 2×9, 9×2, 3×6, 6×3

Factors are : 1, 2, 3, 6, 9 and 18

d. 1×20, 20×1, 2×10, 10×2, 4×5, 5×4

Factors are : 1, 2, 4, 5, 10 and 20

e. 1×6, 6×1, 2×3, 3×2

Factors are : 1, 2, 3 and 6

f. 1×15, 15×1, 3×5, 5×3

Factors are : 1, 3, 5 and 15

g. 1×9, 9×1, 3×3

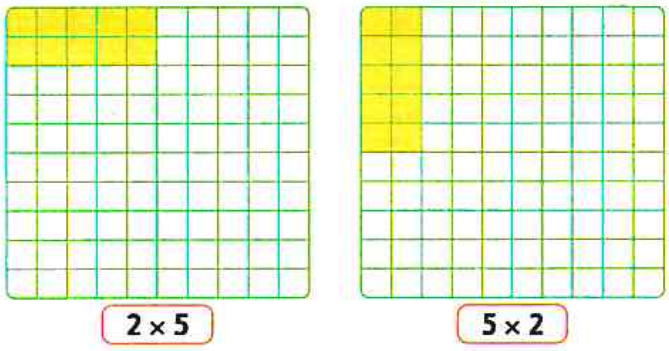
Factors are : 1, 3 and 9

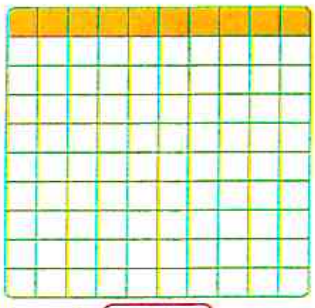
h. 1×7, 7×1

Factors are : 1 and 7

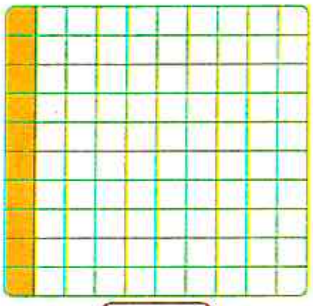
2

a. 10



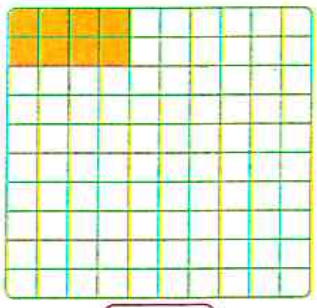


1 × 10

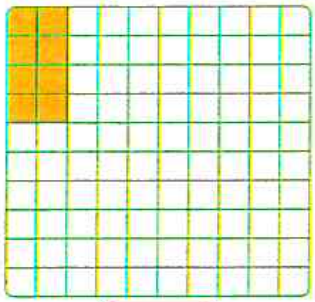


10 × 1

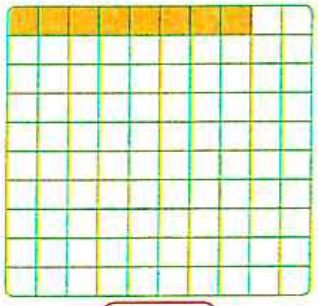
b. **8**



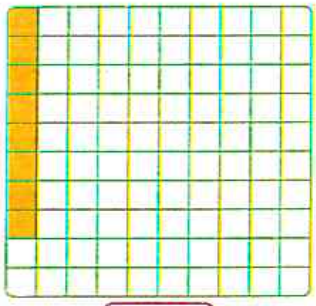
2 × 4



4 × 2

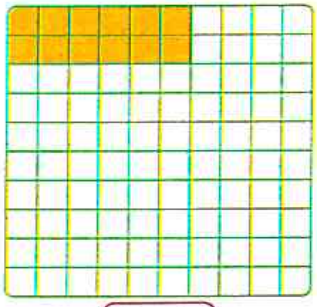


1 × 8

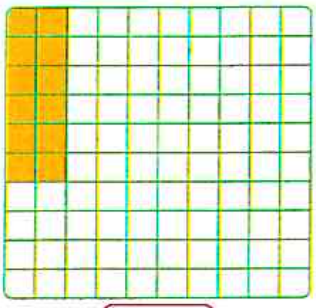


8 × 1

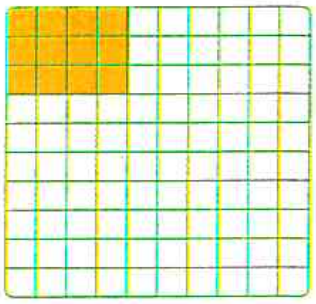
c. **12**



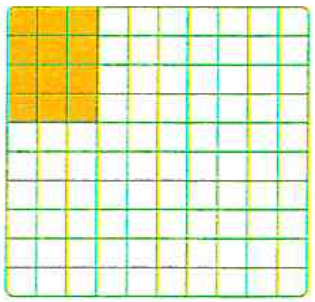
2 × 6



6 × 2

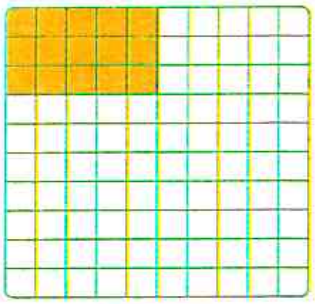


3 × 4

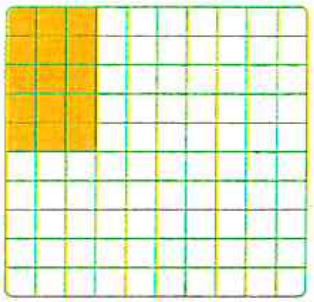


4 × 3

d. **15**



3 × 5



5 × 3

3 a. 4 b. 2 c. 4
d. 6 e. 2 f. 6
g. 5 h. 6

4 a. 1 × 14 = 14 14 × 1 = 14
2 × 7 = 14 7 × 2 = 14
b. 1 × 15 = 15 15 × 1 = 15
3 × 5 = 15 5 × 3 = 15
c. 1 × 21 = 21 21 × 1 = 21
3 × 7 = 21 7 × 3 = 21
d. 1 × 16 = 16 16 × 1 = 16
4 × 4 = 16 8 × 2 = 16
2 × 8 = 16

5 a. 1
b. 2 , 5 , 7 (Answers may vary)

Exercise 15

1 a. 04 : 55 b. 10 : 10

c. 05 : 40 d. 09 : 20

e. 10 : 05 f. 11 : 35

g. 04 : 30 h. 11 : 50

2 a. 07 : 15

It's quarter past 7

b. 02 : 30

It's half past 2

c. 06 : 00

It's 6 o'clock

d. 04 : 45

It's quarter to 5

e. 09 : 15

It's quarter past 9

f. 12 : 00

It's 12 o'clock

3 a.

09 : 05

b.

11 : 25

c.

03 : 40

d.

01 : 55

e.

06 : 10

f.

10 : 20

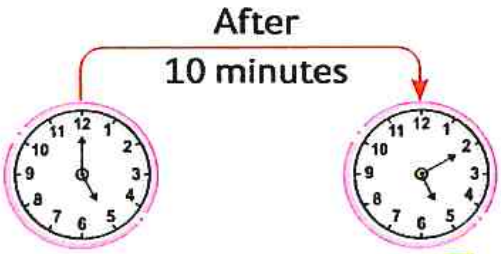
g.

08 : 50

h.

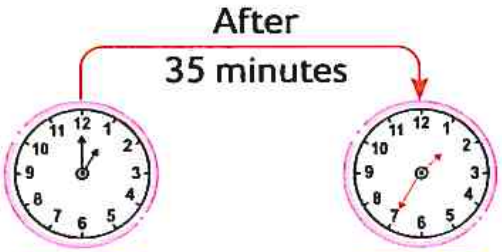
04 : 35

4 a.



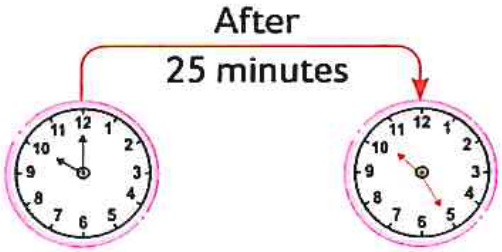
05 : 00 05 : 10

b.



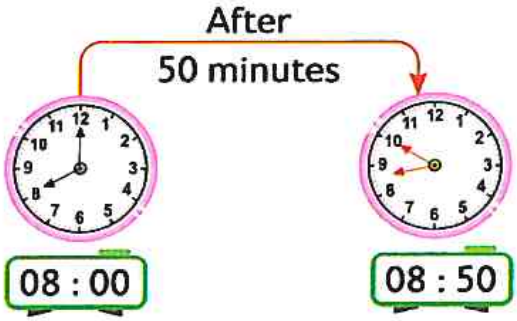
01 : 00 01 : 35

c.

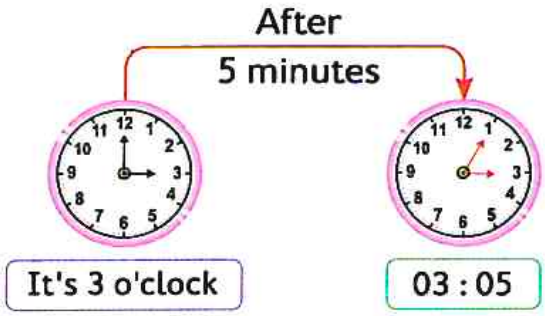


10 : 00 10 : 25

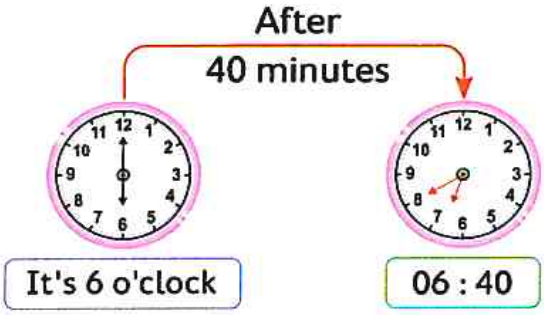
d.



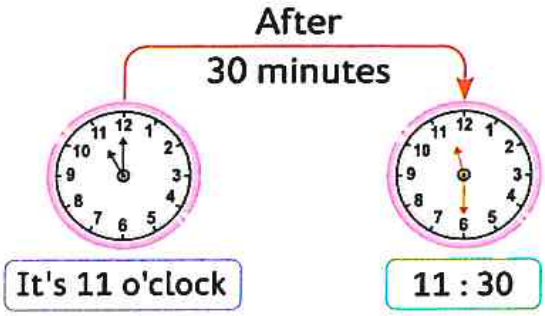
e.



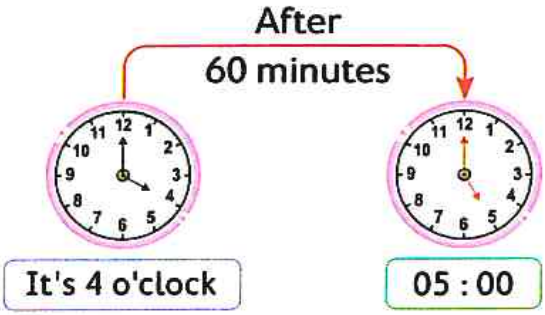
f.



g.



h.

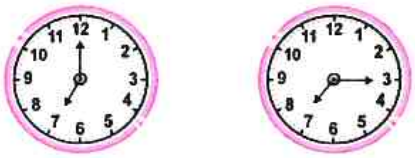


5 a. 2 b. 5 c. 8
d. 1 e. 12

6 a.

Elapsed time : 55 minutes

b.

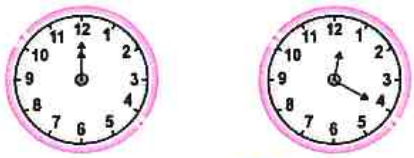


Elapsed time : 15 minutes

c.

Elapsed time : 40 minutes

d.



Elapsed time : 20 minutes

e. 02 : 00 2 : 45

Elapsed time : 45 minutes

f. 10 : 00 10 : 10

Elapsed time : 10 minutes

g. 11 : 00 11 : 05

Elapsed time : 5 minutes

h. 03 : 00 4 : 00

Elapsed time : 1 hour

7 a. 45 b. 35 c. 30
d. 20 e. 25

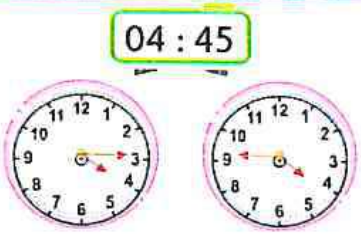
8 a.

b.

c.

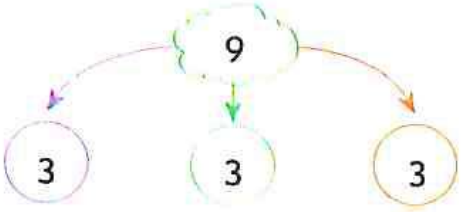
d.

9



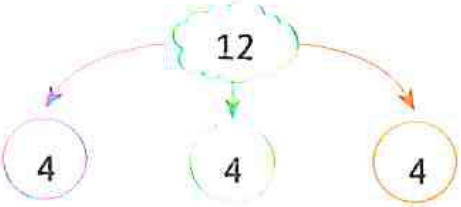
Exercise 16

1 a. 3 ,

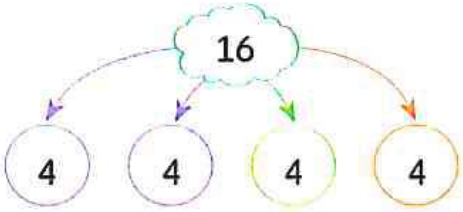


b. 3 ,

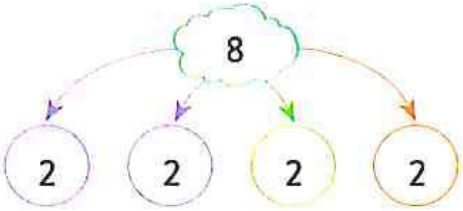
c. 4 ,



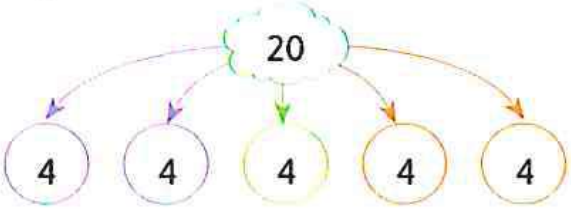
d. 4 ,



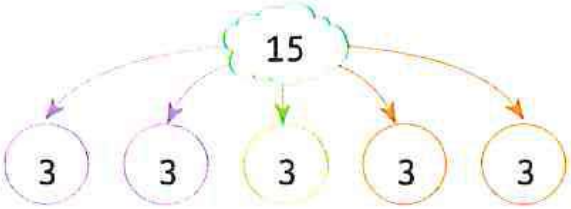
e. 2 ,



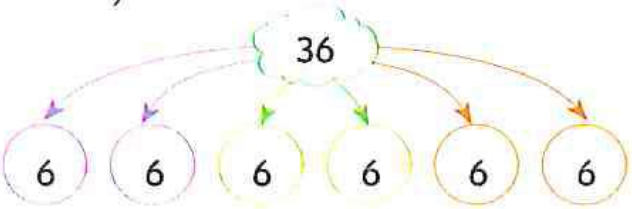
f. 4 ,



g. 3 ,

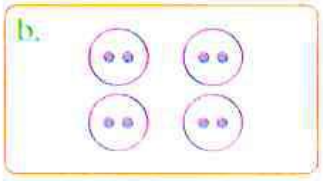


h. 6 ,



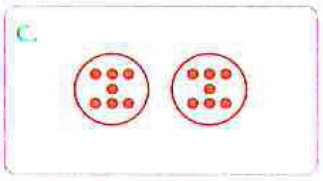
2

b.



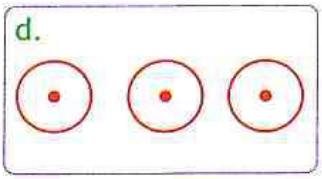
2 in each group.

c.



7 in each group.

d.



1 in each group.

3 a. 6 eggs in each plate.
b. 6 cats.
c. 7 stamps in each page.
d. 6 ibis e. 4 jackals
f. 4 rows. g. 5 crocodiles
h. 9 horses.

4 No, he can not divide 13 into 2 equal groups.

Exercise 17

1 a. 4 b. 2 c. 5
d. 4 e. 8 f. 10
g. 4 h. 3 i. 6
j. 7 k. 4 l. 8
m. 9 n. 8 o. 1
p. 7 q. 7 r. 6
s. 1 t. 10 u. 4
v. 4 w. 4 x. 9
y. 7 z. 6

2 a. 8 b. 9 c. 9
d. 10 e. 3 f. 1
g. 7 h. 5 i. 2
j. 7

3 a. = b. < c. >
d. = e. > f. >
g. = h. <

4 a. ✓ b. ✗ c. ✗
d. ✓ e. ✗ f. ✓
g. ✓ h. ✗ i. ✗
j. ✗ k. ✓ l. ✗

5 a. 3 , 3 b. 7 , 7 c. 9 , 9
d. 3 , 3 e. 9 , 9 f. 8 , 8

6 a. 12 b. 30 c. 15
d. 4 e. 8 f. 9
g. 5 h. 7 i. 9

7 b. $2 \times 7 = 14$
$7 \times 2 = 14$
$14 \div 7 = 2$
$14 \div 2 = 7$

c. $3 \times 9 = 27$
$9 \times 3 = 27$
$27 \div 3 = 9$
$27 \div 9 = 3$

d. $4 \times 6 = 24$
$6 \times 4 = 24$
$24 \div 4 = 6$
$24 \div 6 = 4$

8 a. $9 \times 4 = 36$
$36 \div 4 = 9$
$36 \div 9 = 4$

b. $5 \times 8 = 40$
$8 \times 5 = 40$
$40 \div 8 = 5$

c. $3 \times 6 = 18$
$18 \div 3 = 6$
$18 \div 6 = 3$

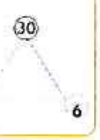
d. $8 \times 2 = 16$
$16 \div 2 = 8$
$16 \div 8 = 2$

e. $1 \times 13 = 13$
$13 \times 1 = 13$
$13 \div 13 = 1$

f. $2 \times 7 = 14$
$7 \times 2 = 14$
$14 \div 7 = 2$

9

a. $5 \times 6 = 30$
$6 \times 5 = 30$
$30 \div 5 = 6$
$30 \div 6 = 5$ ⑤



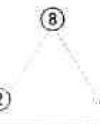
b. $4 \times 6 = 24$
$6 \times 4 = 24$
$24 \div 4 = 6$
$24 \div 6 = 4$ ⑥

c. $3 \times 8 = 24$
$8 \times 3 = 24$
$24 \div 3 = 8$
$24 \div 8 = 3$ ⑧

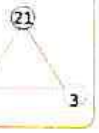
d. $3 \times 6 = 18$
$6 \times 3 = 18$
$18 \div 3 = 6$
$18 \div 6 = 3$ ③

e. $4 \times 7 = 28$
$7 \times 4 = 28$
$28 \div 4 = 7$
$28 \div 7 = 4$ ④

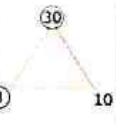
f. $2 \times 4 = 8$
$4 \times 2 = 8$
$8 \div 2 = 4$
$8 \div 4 = 2$ ②



g. $3 \times 7 = 21$
$7 \times 3 = 21$
$21 \div 3 = 7$
$21 \div 7 = 3$ ⑦



h. $3 \times 10 = 30$
$10 \times 3 = 30$
$30 \div 3 = 10$
$30 \div 10 = 3$ ③



10 a. $36 \div 6 = 6$ b. $9 \times 2 = 18$
c. $24 \div 3 = 8$

11

a.

(4)	(9)	(36)
4	× 9	= 36
9	× 4	= 36
36 ÷	4	= 9
36 ÷	9	= 4

b.

(2)	(5)	(10)
2	× 5	= 10
5	× 2	= 10
10 ÷	2	= 5
10 ÷	5	= 2

Answers of Chapter 4

Exercise 18

1 a. ✓ b. ✓ c. ✓
d. ✗ e. ✗ f. ✓
g. ✗ h. ✗ i. ✓
j. ✓ k. ✗ l. ✗
m. ✗ n. ✓ o. ✗

2 Answers may vary

a. b.

c. d.

3 a. → Octagon
b. → Triangle
c. → Parallelogram
d. → Hexagon
e. → Pentagon
f. → Trapezium

4 a. Parallelogram b. Triangle
c. Pentagon d. Rectangle
e. Square f. Trapezium
g. Hexagon h. Circle
i. Rhombus

5

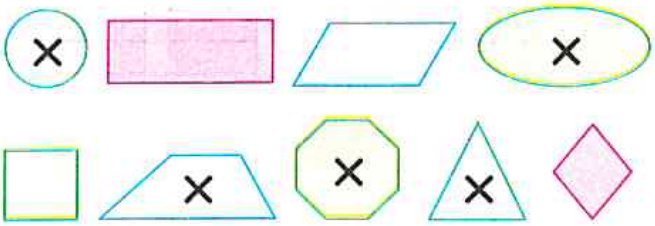
Shape	Name	Attributes		Polygon
		Sides	Vertices	
	Triangle	3	3	polygon
	Trapezium	4	4	polygon
	Rectangle	4	4	polygon
	Pentagon	5	5	polygon
	Square	4	4	polygon
	Circle	0	0	not a polygon
	Hexagon	6	6	polygon
	Rhombus	4	4	polygon

6 a. ✗ b. ✓ c. ✗
d. ✓ e. ✓ f. ✗
g. ✓ h. ✓

7 a. 3 , 3 b. 8 c. 5 , 5
d. 7 e. hexagon
f. heptagon

Exercise 19

1



• Examples of parallelogram : rectangle , square , rhombus

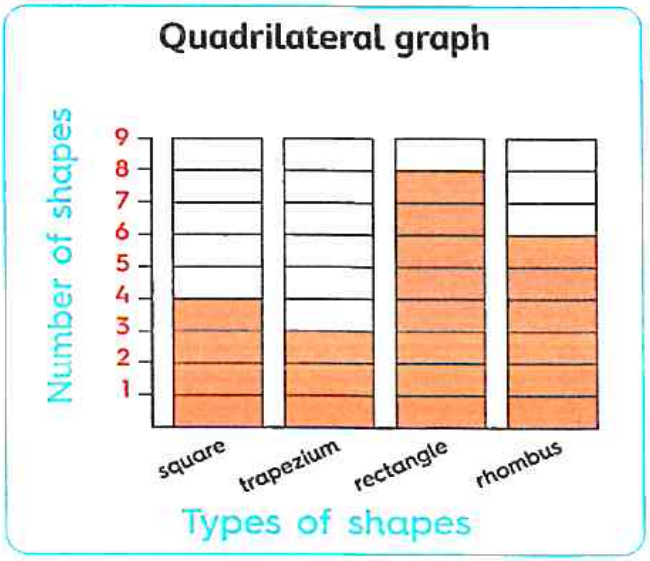
2 a. Rectangle b. Rhombus
c. Square d. Trapezium
e. Parallelogram f. Trapezium

3 a. 4 b. 2
c. 4 d. 4
e. 1 f. 4

4 a. trapezium
b. quadrilateral
c. square
d. rhombus
e. rectangle

5 a. ✓ b. ✗ c. ✓
d. ✗ e. ✓ f. ✗
g. ✗ h. ✓ i. ✓
j. ✓

6



a. Rectangle
b. Trapezium
c. 18

Exercise 20

First : Exercise on calculating area

1 a. 9 b. 10 c. 14
d. 11 e. 14 f. 10
g. 30 h. 21 i. 14
j. $2 \times 5 = 10$
k. $3 \times 4 = 12$
l. $3 \times 6 = 18$

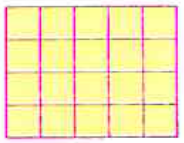
2 a. 20 b. 18 c. 25
d. 21 e. 21 f. 7
g. 70 h. 32 i. 40

3 a. $7 \times 6 = 42$
b. $9 \times 8 = 72$
c. $4 \times 5 = 20$
d. $7 \times 10 = 70$

4 a.

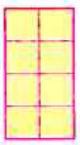
$2 \times 7 = 14$

b.



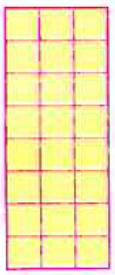
$4 \times 5 = 20$

c.



$4 \times 2 = 8$

d.

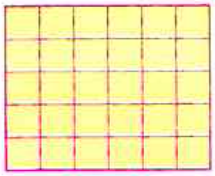


$8 \times 3 = 24$

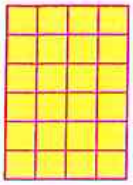
e.

$6 \times 1 = 6$

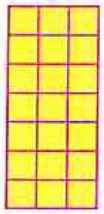
f.



$5 \times 6 = 30$

g. 

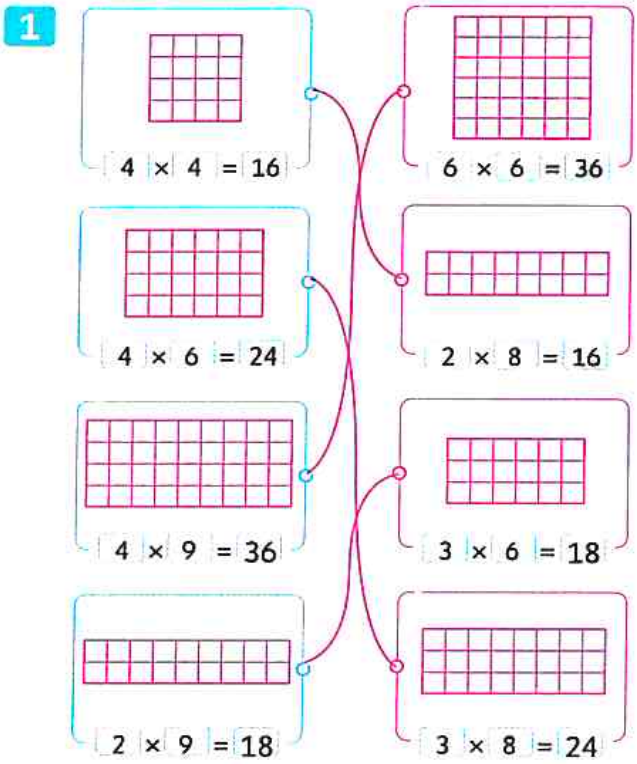
$6 \times 4 = 24$

h. 

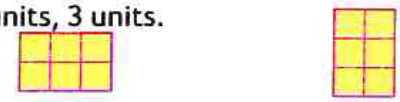
$7 \times 3 = 21$

Second : Exercise on equal areas

1

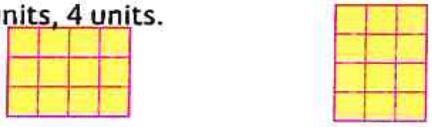


2 a. 2 units, 3 units.



The area = $2 \times 3 = 6$ square units.

b. 3 units, 4 units.



The area = $3 \times 4 = 12$ square units.

c. 4 units, 5 units.

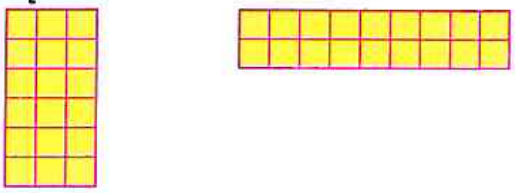
The area = $4 \times 5 = 20$ square units.

3 a. 12 square units

Answers may vary

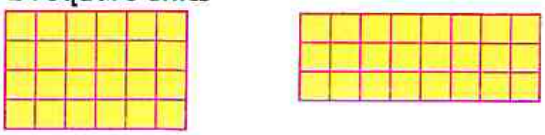
$4 \times 3 = 12$ square units. $2 \times 6 = 12$ square units.

b. 18 square units



$6 \times 3 = 18$ square units. $2 \times 9 = 18$ square units.

c. 24 square units



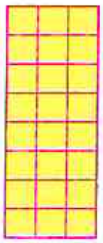
$4 \times 6 = 24$ square units. $3 \times 8 = 24$ square units.

4

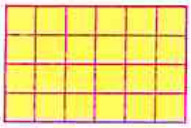
$3 \times 4 = 12$ $2 \times 6 = 12$

Yes, they have the same area.

5



Answers may vary



$8 \times 3 = 24$ $3 \times 8 = 24$ $4 \times 6 = 24$ $6 \times 4 = 24$

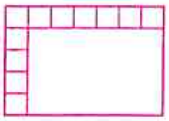
Third : Exercise on area using dimension

1 a.

Area = $\frac{3}{\text{rows}} \times \frac{7}{\text{columns}}$

= 21 square units

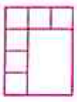
b.



Area = $\frac{5}{\text{rows}} \times \frac{7}{\text{columns}}$

= 35 square units

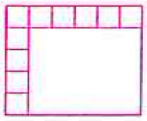
c.



Area = $\frac{4}{\text{rows}} \times \frac{3}{\text{columns}}$

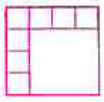
= 12 square units

d.

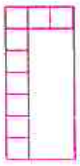


Area = $\frac{5}{\text{rows}} \times \frac{6}{\text{columns}}$

= 30 square units

e. 

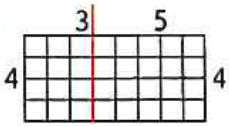
Area = $\frac{4}{\text{rows}} \times \frac{4}{\text{columns}}$
= 16 square units

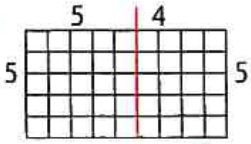
f. 

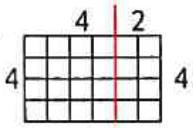
Area = $\frac{7}{\text{rows}} \times \frac{3}{\text{columns}}$
= 21 square units

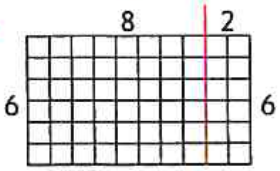
2 3 × 6 = 18 square cm

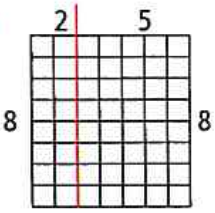
Exercise 21

1 a. 

b. 

c. 

d. 

e. 

2 a. 8 × 7 = (8 × 5) + (8 × 2)

b. 6 × 9 = (6 × 5) + (6 × 4)

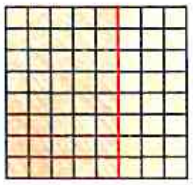
c. 7 × 10 = (7 × 7) + (7 × 3)

d. 9 × 8 = (9 × 4) + (9 × 4)

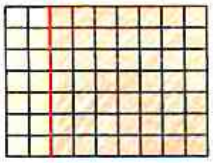
e. 5 × 11 = (5 × 1) + (5 × 10)

f. 4 × 7 = (4 × 6) + (4 × 1)

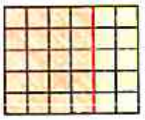
3

a. 

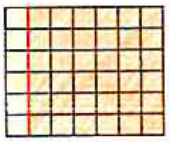
8 × 8 = (8 × 5) + (8 × 3)

b. 

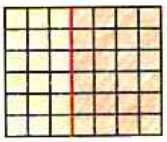
7 × 9 = (7 × 2) + (7 × 7)

c. 

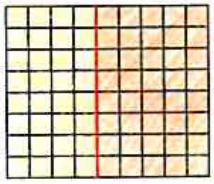
5 × 6 = (5 × 4) + (5 × 2)

d. 

6 × 7 = (6 × 1) + (6 × 6)

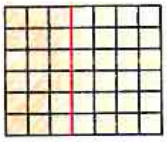
e. 

6 × 7 = (6 × 3) + (6 × 4)

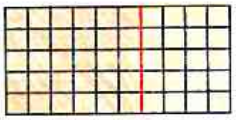
f. 

8 × 9 = (8 × 4) + (8 × 5)

4 Answers may vary

a. 

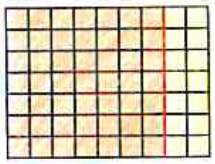
6 × 3 = 18
6 × 4 = 24
18 + 24 = 42
6 × 7 = 42
6 × 7 = (6 × 3) + (6 × 4)

b. 

5 × 6 = 30
5 × 4 = 20
30 + 20 = 50
5 × 10 = 50
5 × 10 = (5 × 6) + (5 × 4)

c.

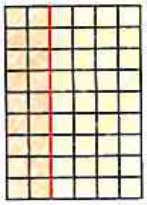
3 × 8 = 24
3 × 5 = 15
24 + 15 = 39
3 × 13 = 39
3 × 13 = (3 × 8) + (3 × 5)

d. 

7 × 7 = 49
7 × 2 = 14
49 + 14 = 63
7 × 9 = 63
7 × 9 = (7 × 7) + (7 × 2)

e.

8 × 1 = 8
8 × 1 = 8
8 + 8 = 16
8 × 2 = 16
8 × 2 = (8 × 1) + (8 × 1)

f. 

9 × 2 = 18
9 × 4 = 36
18 + 36 = 54
9 × 6 = 54
9 × 6 = (9 × 2) + (9 × 4)

g.

$7 \times 3 = 21$

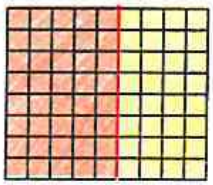
$7 \times 5 = 35$

$21 + 35 = 56$

$7 \times 8 = 56$

$7 \times 8 = (7 \times 3) + (7 \times 5)$

h.



$8 \times 5 = 40$

$8 \times 4 = 32$

$40 + 32 = 72$

$8 \times 9 = 72$

$8 \times 9 = (8 \times 5) + (8 \times 4)$

5 a. 3 b. 5

c. 1 d. 6

e. 9 , 5 f. 4 , 4

g. 5 , 10 h. 10

i. 8 , 10 j. 3 , 1

k. 7 , 5 l. 5 , 7

6 a. $6 \times 7 = (6 \times 2) + (6 \times 5)$
$= 12 + 30$
$= 42$

b. $9 \times 8 = (9 \times 4) + (9 \times 4)$
$= 36 + 36$
$= 72$

c. $4 \times 9 = (4 \times 4) + (4 \times 5)$
$= 16 + 20$
$= 36$

d. $12 \times 2 = (12 \times 1) + (1 \times 12)$
$= 12 + 12$
$= 24$

e. $10 \times 11 = (10 \times 10) + (10 \times 1)$
$= 100 + 10$
$= 110$

f. $5 \times 7 = (5 \times 6) + (5 \times 1)$
$= 30 + 5$
$= 35$

g. $9 \times 6 = (9 \times 3) + (9 \times 3)$
$= 27 + 27$
$= 54$

h. $3 \times 14 = (3 \times 4) + (3 \times 10)$
$= 12 + 30$
$= 42$

7 a. → $(3 \times 7) + (3 \times 3)$

b. → $(7 \times 5) + (7 \times 1)$

c. → $(4 \times 5) + (4 \times 4)$

d. → $(9 \times 10) + (9 \times 3)$

e. → $(6 \times 6) + (6 \times 5)$

8 a. 1 b. 13

c. 4 d. 10

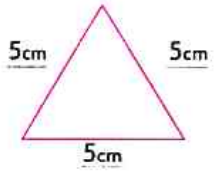
e. 10

Answers of Chapter 5

Exercise 22

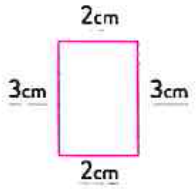
1

a.



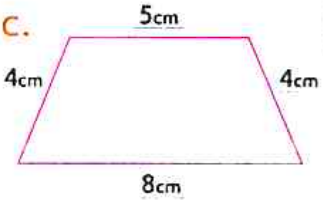
Perimeter = 5 + 5 + 5
= 15 cm

b.



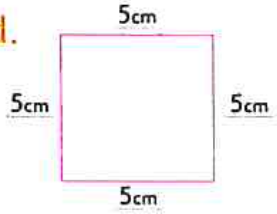
Perimeter = 2 + 3 + 2 + 3
= 10 cm

c.



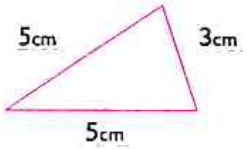
Perimeter = 5 + 4 + 8 + 4
= 21 cm

d.



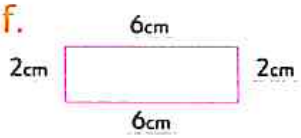
Perimeter = 5 + 5 + 5 + 5
= 20 cm

e.



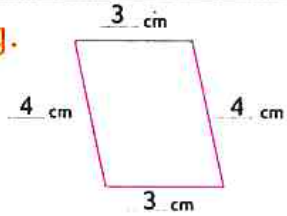
Perimeter = 3 + 5 + 5
= 13 cm

f.



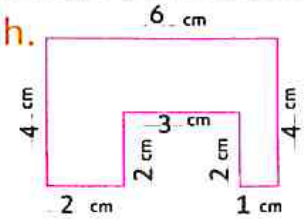
Perimeter = 6 + 2 + 6 + 2
= 16 cm

g.



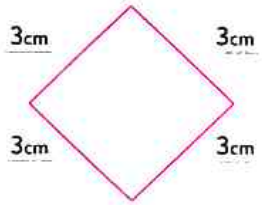
Perimeter = 3 + 4 + 3 + 4
= 14 cm

h.



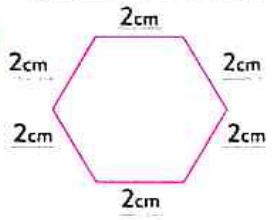
Perimeter = 6 + 4 + 1 + 2
+ 3 + 2 + 2 + 4 = 24 cm

i.



Perimeter = 3 + 3 + 3 + 3
= 12 cm

j.



Perimeter = 2 + 2 + 2 + 2
+ 2 + 2 = 12 cm

2

a. Perimeter = 20 cm
Area = 21 square centimeters

b. Perimeter = 14 cm
Area = 6 square centimeters

c. Perimeter = 12 cm
Area = 8 square centimeters

d. Perimeter = 12 cm
Area = 9 square centimeters

e. Perimeter = 16 cm
Area = 12 square centimeters

f. Perimeter = 14 cm
Area = 9 square centimeters

g. Perimeter = 18 cm
Area = 8 square centimeters

h. Perimeter = 20 cm
Area = 10 square centimeters

i. Perimeter = 20 cm
Area = 16 square centimeters

j. Perimeter = 22 cm
Area = 14 square centimeters

k. Perimeter = 16 cm
Area = 12 square centimeters

l. Perimeter = 20 cm
Area = 13 square centimeters

3

a. Perimeter = 14 meters
Area = 12 square meters

b. Perimeter = 16 meters
Area = 15 square meters

c. Perimeter = 22 meters
Area = 28 square meters

d. Perimeter = 24 meters
Area = 27 square meters

e. Perimeter = 26 meters
Area = 30 square meters

f. Perimeter = 18 meters
Area = 20 square meters

g. 120 meters

h. 132 square meters

4 a. 48

b. 48

c. No, the area of the warehouse
$= 2 \times 6 = 12$ square meters
The area of the garden $= 2 \times 7$
$= 14$ square meters

d. Yes, the perimeter of the
parking $= 2 + 6 + 2 + 6$
$= 16$ meters
The perimeter of the
swimming pool $= 2 + 6 + 2 + 6$
$= 16$ meters

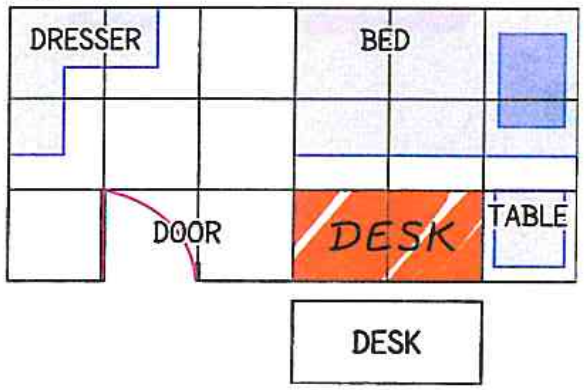
5

Region	Perimeter in centimeters	Area in square centimeters
Red	18	18
Green	20	25
Blue	12	8
Yellow	22	18

a. Green

b. Blue, Red, Green, Yellow

6 Yes



Exercise 23

1 a. Area $= 3 \times 4$
$= 12$ square centimeters

b. Area $= 5 \times 5$
$= 25$ square centimeters

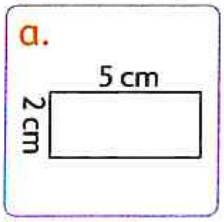
c. Area $= 3 \times 7$
$= 21$ square centimeters

d. Area $= 2 \times 6$
$= 12$ square centimeters

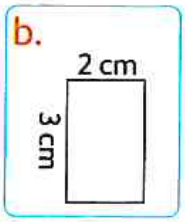
e. Area $= 4 \times 4$
$= 16$ square centimeters

f. Area $= 5 \times 6$
$= 30$ square centimeters

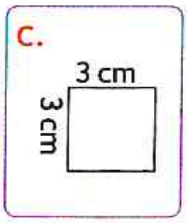
2



Area $= 5 \times 2$
$= 10$ square centimeters



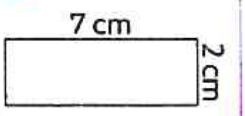
Area $= 2 \times 3$
$= 6$ square centimeters



Area $= 3 \times 3$
$= 9$ square centimeters

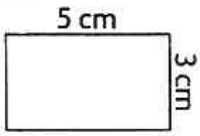
3

a.



Area = 7 × 2
= 14 square centimeters

b.



Area = 5 × 3
= 15 square centimeters

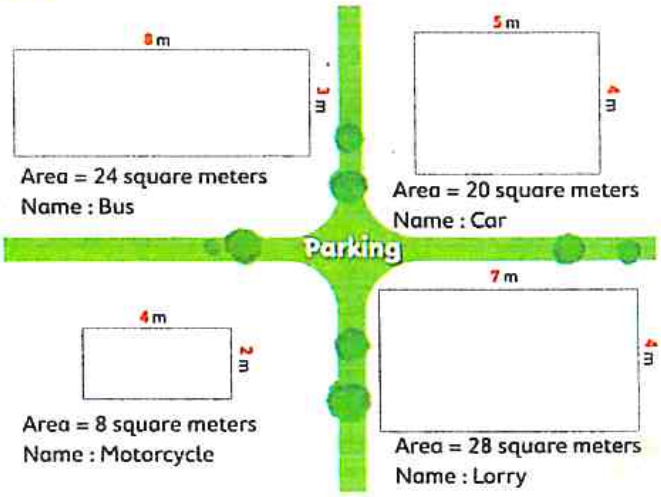
c.

Area = 3 × 6
= 18 square centimeters

d.

Area = 4 × 4
= 16 square centimeters

4



5

Answers may vary

a.

Way 1
Split the array
7 × 9 = (7 × 5) + (7 × 4)
= 35 + 28 = 63
Area = 63 square units

Way 2
Formula of area of a rectangle
7 × 9 = 63
Area = 63 square units

b.

Way 1
Count all square units in the array
Area = 10 square centimeters

Way 2
5 + 5 = 10
Area = 10 square centimeters

c.

Way 1
Split the array
6 × 3 = (6 × 1) + (6 × 2)
= 6 + 12 = 18
Area = 18 square units

Way 2
Formula of area of a rectangle
6 × 3 = 18
Area = 18 square units

d.

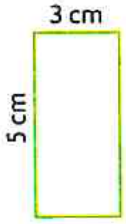
Way 1
Split the array
5 × 4 = (5 × 2) + (5 × 2)
= 10 + 10 = 20
Area = 20 square centimeters

Way 2
Formula of area of a rectangle
5 × 4 = 20
Area = 20 square centimeters

e.

Way 1
Split the array
3 × 5 = (3 × 3) + (3 × 2)
= 9 + 6 = 15
Area = 15 square centimeters

Way 2
Formula of area of a rectangle
3 × 5 = 15
Area = 15 square centimeters



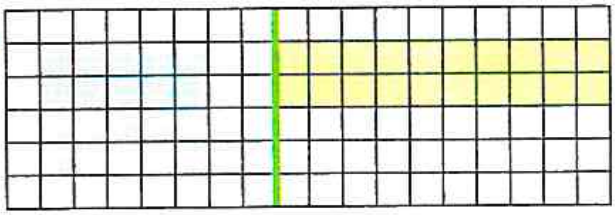
6 Area = 50 × 10
= 500 square meters

Exercise 24

Answers may vary

1

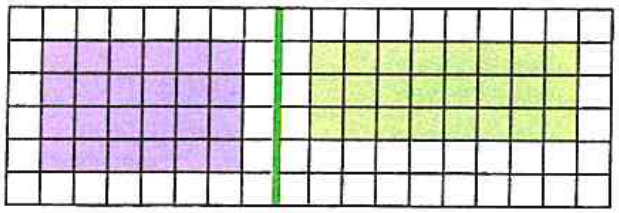
a.



Area = 20 square units.
Perimeter = 18 length units.

Area = 20 square units.
Perimeter = 24 length units.

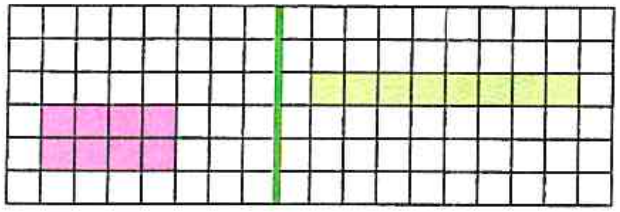
b.



Area = 24 square units.
Perimeter = 20 length units.

Area = 24 square units.
Perimeter = 22 length units.

c.



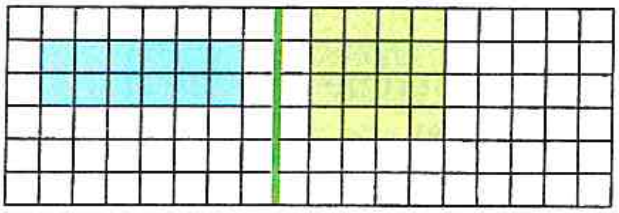
Area = 8 square units.
Perimeter = 12 length units.

Area = 8 square units.
Perimeter = 18 length units.

2

Answers may vary

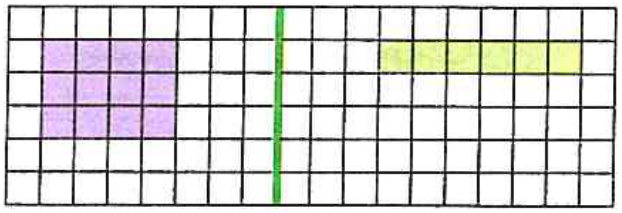
a.



Area = 12 square units.
Perimeter = 16 length units.

Area = 16 square units.
Perimeter = 16 length units.

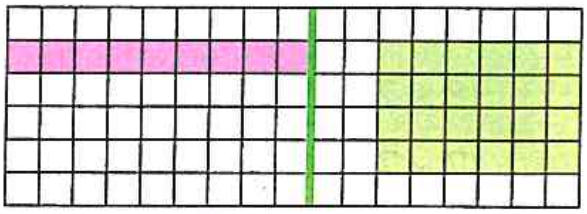
b.



Area = 12 square units.
Perimeter = 14 length units.

Area = 6 square units.
Perimeter = 14 length units.

c.



Area = 9 square units.
Perimeter = 20 length units.

Area = 24 square units.
Perimeter = 20 length units.

3

Draw a rectangle with dimensions 3 cm and 2 cm

Side lengths are 2 cm, 3 cm
Perimeter = 10 centimeters

Draw a rectangle with dimensions 6 cm and 1 cm

Side lengths are 1 cm, 6 cm
Perimeter = 14 centimeters

The perimeter of the second rectangle is greater.

4

Answer may vary

Draw a rectangle with dimensions 6 cm and 4 cm

Side lengths are 4 cm, 6 cm
Area = 24 square cm

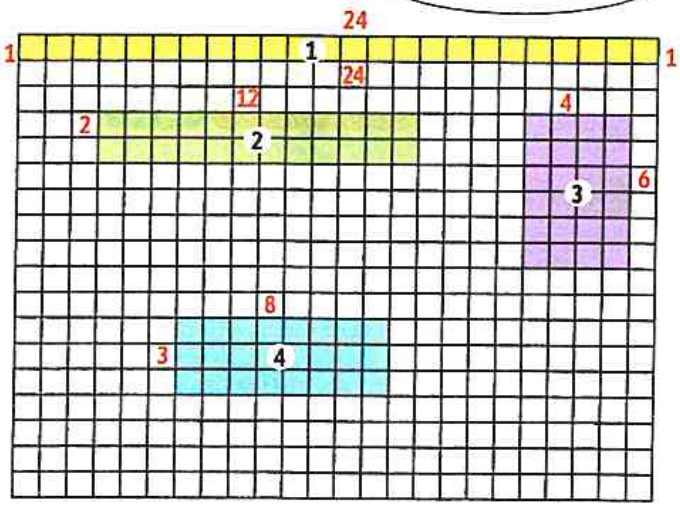
Draw a rectangle with dimensions 7 cm and 3 cm

Side lengths are 7 cm, 3 cm
Area = 21 square cm

The area of first rectangle is greater.

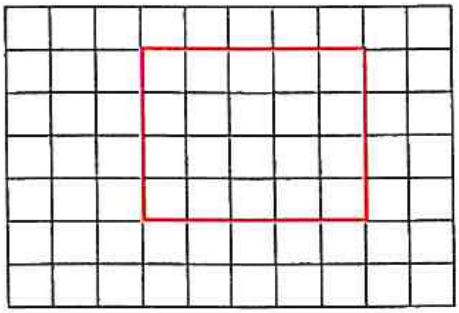
5

Answers may vary



	Width (length units)	Length (length units)	Area (square units)	Perimeter (length units)
Rectangle 1	1	24	24	50
Rectangle 2	2	12	24	28
Rectangle 3	4	6	24	20
Rectangle 4	8	3	24	22

6 4 cm , 5 cm



Exercise 25

1 a. The area of the pen
$= 3 \times 2 = 6$ square meters

b. The number of tiles
$= 7 \times 6 = 42$ tiles.

c. The perimeter
$= 20 + 12 + 20 + 12 = 64$ cm

d. The length of the fence
$= 8 + 3 + 8 + 3 = 22$ meters.

e. The area of the rug
$= 3 \times 2 = 6$ square meters

f. The area of the party banner
$= 7 \times 2 = 14$ square meters

g. The length of the border
$= 45 + 45 + 45 + 45$
$= 180$ centimeters.

h. The area of the wall
$= 6 \times 3 = 18$ square meters

i. False.

2 The perimeter of Kareem's school playground
$= 75 + 40 + 75 + 40 = 230$ m

The perimeter of Ali's school playground
$= 90 + 30 + 90 + 30 = 240$ m

Ali jogged longer.

Exercise 26

1 a. 12 , 120 b. 10 , 100

c. 18 , 180 d. 28 , 280

e. 24 , 240

2 a. $(4 \times 5) \times 10 = 20 \times 10 = 200$

b. $(8 \times 2) \times 10 = 16 \times 10 = 160$

c. $(7 \times 7) \times 10 = 49 \times 10 = 490$

d. $(9 \times 9) \times 10 = 81 \times 10 = 810$

e. $(3 \times 6) \times 10 = 18 \times 10 = 180$

f. $(4 \times 9) \times 10 = 36 \times 10 = 360$

g. $(6 \times 2) \times 10 = 12 \times 10 = 120$

h. $(7 \times 4) \times 10 = 28 \times 10 = 280$

3 a. 150 b. 120 c. 320
d. 100 e. 160 f. 210
g. 540 h. 280 i. 160
j. 720 k. 180 l. 560
m. 180 n. 250 o. 100

4 a. 210 b. 4 c. 150
d. 7 e. 0 f. 320
g. 40 h. 80

5 a. 60 b. 200 c. 450
d. 560 e. 2 f. 7
g. 2 h. 2 i. 3
j. 7 k. 3 l. 1
m. 50 n. 2 o. 30
p. 5 q. 90 r. 3

6 600

Answers of Chapter 6

Exercise 27

1 a. 30 , 300 , 3,000
b. 6 , 60 , 600 , 6,000
c. 24 , 240 , 2,400 , 24,000
d. 28 , 280 , 2,800 , 28,000
e. 30 , 300 , 3,000 , 30,000
f. 35 , 350 , 3,500 , 35,000

2 a. $(3 \times 9) \times 10 = 270$
b. $(4 \times 8) \times 10 = 320$
c. $(9 \times 2) \times 10 = 180$
d. $(6 \times 3) \times 10 = 180$
e. $(8 \times 5) \times 10 = 400$
f. $(7 \times 3) \times 10 = 210$
g. $(6 \times 7) \times 10 = 420$
h. $(5 \times 4) \times 10 = 200$

3 a. 120 b. 100 c. 240
d. 210 e. 250 f. 320
g. 4,200 h. 2,700 i. 500
j. 600 k. 20,000
l. 18,000 m. 18,000
n. 40,000 o. 56,000

4 a. → 80
b. → 180
c. → 350
d. → 240

5 a. 50 b. 7 c. 9
d. 2 e. 4 f. 3,000
g. 200 h. 4,000

6 a. $3 \times 40 = 120$
b. $4 \times 60 = 240$
c. $5 \times 30 = 150$
d. $3 \times 40 = 120$ pounds.
e. $4 \times 60 = 240$ kilograms.

7 Yes, he is correct.
$6 \times 60 = (6 \times 6) \times 10$
$= 36 \times 10 = 360$

Exercise 28

1 a. 27 b. 18 c. 54 d. 36
e. 45 f. 72 g. 9 h. 0
i. 63 j. 90

2 a. → 63
b. → 9×8
c. → 36
d. → 9×5

3 a. 90 b. 45 , 54
c. 63 , 72 d. 36 , 45
e. 18 , 9 f. 27 , 36

4 a. 4 b. 9 c. 2 d. 3
e. 1 f. 6 g. 8 h. 7
i. 0 j. 5 k. 10 l. 3

5 a. 180 b. 450
c. 2,700 d. 5,400
e. 36,000 f. 72,000

6 a. = b. > c. 6 d. 3
e. 50 f. 54 g. 9

Exercise 29

1 a. ⟶ 4 × 1 b. ⟶ 4 × 3
c. ⟶ 2 × 0 d. ⟶ 4 + 3
e. ⟶ 2 × 4

2 a. 5 b. 6 c. 72 d. 4
e. 10 f. 0 g. 15 h. 24
i. 11 j. 12 k. 20 l. 0
m. 15 n. 8 o. 40 p. 10
q. 20 r. 11 s. 1 t. 14
u. 7 v. 81 w. 0 x. 10
y. 9 z. 2

3 a. Multiply
What Amgad paid =
3 × 5 = 15 pounds
b. Add
The number of books =
4 + 5 = 9 books
c. Multiply
The number of pencils =
5 × 6 = 30 pencils

4 a. 7 b. 0 c. 1
d. 1 e. 1 f. 9
g. 6 h. 7 i. 8
j. 0 k. 1 l. 12

5 a. 0 b. 1 c. 2 d. 3
e. 5 f. 1 g. 0 h. 12
i. 7 j. 2 k. 9

6 a. + b. × c. + d. +
e. × f. ×

Exercise 30

1 a. 3,000 + 500 + 9
b. 321,931 c. 6,000 , Thousands
d. 56,342 e. 4 , 3 , 2 , 7
f. Ten thousands
g. Hundred thousands , 100,000

2 a. 3,000 b. 106,725
c. Ten thousands
d. 531,074 e. 74,005
f. 352,950 g. Thousands

3 a. 30 b. 20 c. 4
d. 60 e. 200,000 f. 10

4 a. < b. > c. < d. =
e. > f. > g. < h. >
i. = j. <

5 a. The order is : 5,021 , 5,102 , 5,201 , 5,210
b. The order is : 5,099 , 55,318 , 55,418 , 505,720 , 550,941

6 a. 409,009 , 30,199 , 4,099 , 3,109 , 499

b. The order is : 248,672 , 248,671 , 15,378 , 15,368 , 9,725

7 a. 70,000 (Answers may vary)

b. 800,000 + 30,000 + 5,000 + 400 + 60 + 9

c. fifty-eight thousand , seventy-two

d. hundred thousands

e. 3,000 hundreds or 30,000 tens

f. < g. > h. 80 thousands

i. 5,101 , 10,050 , 50,011 , 501,001 , 510,001

8 324, 0 65 , 19 0 , 654

Exercise 31

1 a. 300 + 20 + 8
400 + 60 + 1
700 + 80 + 9 = 789

b. 100 + 40 + 2
300 + 20 + 5
400 + 60 + 7 = 467

c. 600 + 10 + 5
300 + 20 + 4
900 + 30 + 9 = 939

d. 400 + 80 + 3
200 + 1
600 + 80 + 4 = 684

e. 800 + 20 + 3
200 + 60 + 2
1,000 + 80 + 5 = 1,085

f. 3,000 + 100 + 20 + 5
4,000 + 500 + 10 + 9
7,000 + 600 + 30 + 14 = 7,644

g. 7,000 + 200 + 10
2,000 + 300 + 20 + 5
9,000 + 500 + 30 + 5 = 9,535

2

a. + 200, + 40, + 3
532 732 772 775
243 + 532 = 775

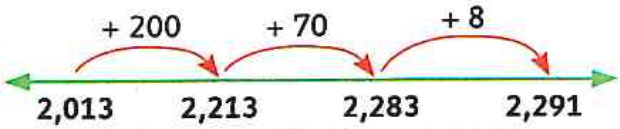
b. + 200, + 50, + 7
354 554 604 611
257 + 354 = 611

c. + 300, + 40, + 8
532 832 872 880
348 + 532 = 880

d. + 200, + 30, + 3
677 877 907 910
677 + 233 = 910

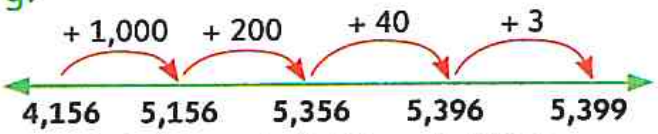
e. + 300, + 30, + 7
865 1,165 1,195 1,202
865 + 337 = 1,202

f.



2,013 + 278 = 2,291

g.



4,156 + 1,243 = 5,399

3 a. 755 b. 750 c. 946
d. 913 e. 645 f. 906
g. 201 h. 716 i. 7,521
j. 5,623 k. 8,892 l. 7,713
m. 775 n. 791 o. 100
p. 642 q. 8,881 r. 5,852
s. 6,200 t. 11,593 u. 692
v. 5,723

4 Strategies may vary

a. **First strategy :**

100 + 20 + 7
400 + 20 + 6

500 + 40 + 13 = 553

Second strategy :

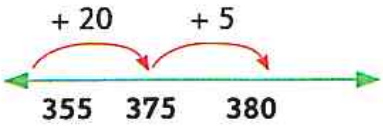
```
  1
  1 2 7
+ 4 2 6
-------
  5 5 3
```

b. **First strategy :**

300 + 50 + 5
20 + 5

300 + 70 + 10 = 380

Second strategy :



355 + 25 = 380

c. **First strategy :**

```
  1
  4 2 9
+ 1 5 2
-------
  5 8 1
```

Second strategy :

400 + 20 + 9
100 + 50 + 2

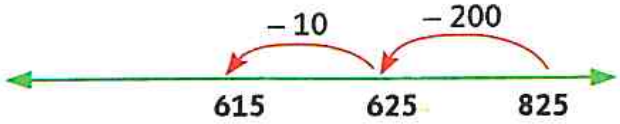
500 + 70 + 11 = 581

5 a. 439 + 116 = 555
b. 328 + 149 = 477
c. 410 + 175 = 585
d. 338 + 354 = 692
e. 509 + 487 = 996
f. 408 + 522 = 930

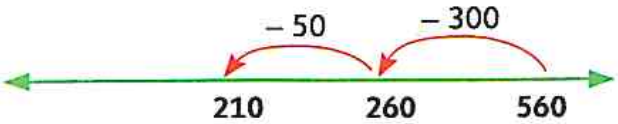
Exercise 32

1

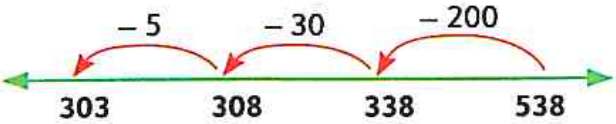
a.

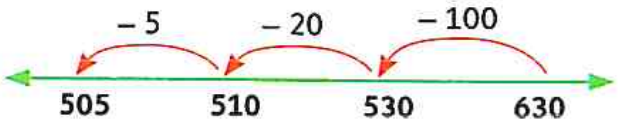


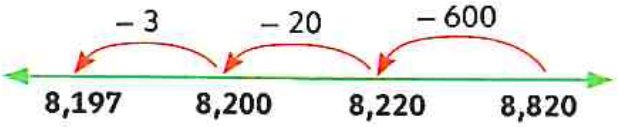
b.

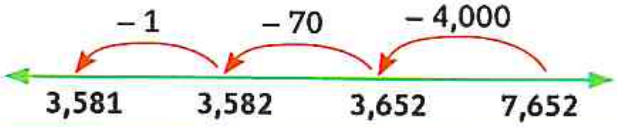


c.



d. 

e. 

f. 

2 a. 249 b. 307 c. 415
d. 118 e. 128 f. 268
g. 80 h. 433 i. 2,106
j. 2,180 k. 1,419 l. 8,292
m. 259 n. 518 o. 330
p. 315 q. 2,233 r. 504
s. 1,325 t. 8,391 u. 3,381
v. 5,493

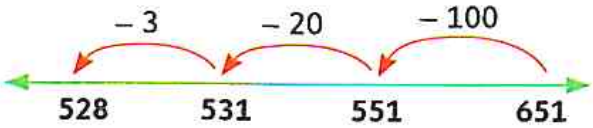
3 a. **First strategy :**

Strategies may vary

$$\begin{array}{r} 4\ \ 11 \\ 6\cancel{5}\cancel{1} \\ -\ 1\,2\,3 \\ \hline 5\,2\,8 \end{array}$$

Second strategy :

123 = 100 + 20 + 3
651 – 100 = 551
551 – 20 = 531
531 – 3 = 528



b. **First strategy :**

206 = 200 + 6
735 – 200 = 535
535 – 6 = 529

Second strategy :

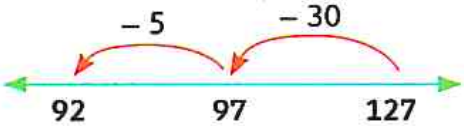
$$\begin{array}{r} 2\ \ 15 \\ 7\cancel{3}\cancel{5} \\ -\ 2\,0\,6 \\ \hline 5\,2\,9 \end{array}$$

c. **First strategy :**

$$\begin{array}{r} 0\ \ 12 \\ \cancel{1}\cancel{2}7 \\ -\ \ \ 3\,5 \\ \hline 9\,2 \end{array}$$

Second strategy :

35 = 30 + 5
127 – 30 = 97
97 – 5 = 92



d. **First strategy :**

$$\begin{array}{r} 11 \\ 3\ \cancel{1}\ 11 \\ \cancel{4},\cancel{2}\cancel{1}9 \\ -\ 1,7\,7\,7 \\ \hline 2,4\,4\,2 \end{array}$$

Second strategy :

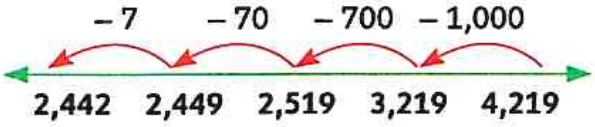
1,777 = 1,000 + 700 + 70 + 7

4,219 – 1,000 = 3,219

3,219 – 700 = 2,519

2,519 – 70 = 2,449

2,449 – 7 = 2,442



4 Strategies may vary

a.	684 − 232 = 452	232 + 452 = 684
b.	790 − 50 = 740	790 – 740 = 50
c.	855 − 105 = 750	750 + 105 = 855
d.	3,489 − 1,263 = 2,226	3,489 – 2,226 = 1,263

Exercise 33

a. The total amount = 365 + 475 = 840 pounds

b. The days left = 365 – 147 = 218 days

c. The number of students = 1,355 + 1,420 = 2,775 students

d. The number of pages left = 370 – 139 = 231 pages

e. The number of all marbles = 435 + 435 + 435 = 870 + 435 = 1,305 marbles

f. The number of books on loan and missing = 525 + 137 = 662 books

The number of books in the library now = 2,475 – 662 = 1,813 books

g. What Sami paid = 3,250 + 675 = 3,925 L.E.

The money left = 6,000 – 3,925 = 2,075 L.E.

h. What they need = 4,590 – 2,410 = 2,180 pounds

Exercise 34

1 a. 1 L b. 300 mL c. 10 mL

d. 40 L e. 2 L f. 500 mL

g. 200 mL h. 3 L i. 350 mL

j. 2 L k. 10 mL l. 50 L

2 a. 30 b. 60 c. 80
d. 70 e. 90 f. 50

3

a.
30 mL

b.
80 mL

c.
50 mL

d.
100 mL

e.
10 mL

f.
70 mL

4 a. b. c. d.

5 a. 5,000 b. 9,000 c. 3
d. 4 e. 25,000 f. 37
g. 10,000 h. 7,000 i. 75
j. 1

6 a. 3,000 b. 14,000 c. 10,000
d. mL e. L f. capacity
g. 330 mL h. 2 i. 70
j. capacity k. L l. 5,000
m. 3 n. 3 o. L
p. mL

7 1 L = 1,000 mL ,
1,300 – 1,000 = 300 mL
Sameh drank 300 mL more than 1 L

ANSWERS

of Step by Step Revision

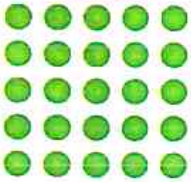
Answers of Worksheets

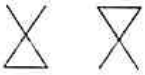
Sheet 1

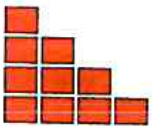
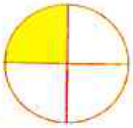
1 a. – 10 b. + 16 c. – 25

2 a. 53 , 56 [+ 3]
b. 40 , 30 [– 10]
c. 135 , 140 [+ 5]

3 a. b. 78



c.  d.

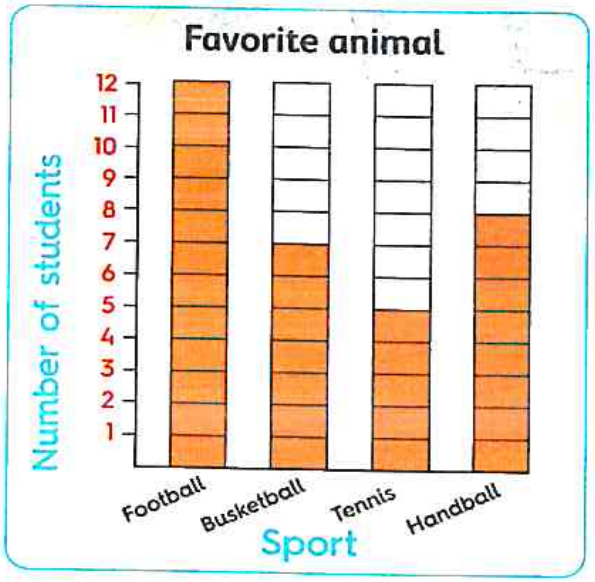
e.  f. 

Sheet 2

1

Favorite sports

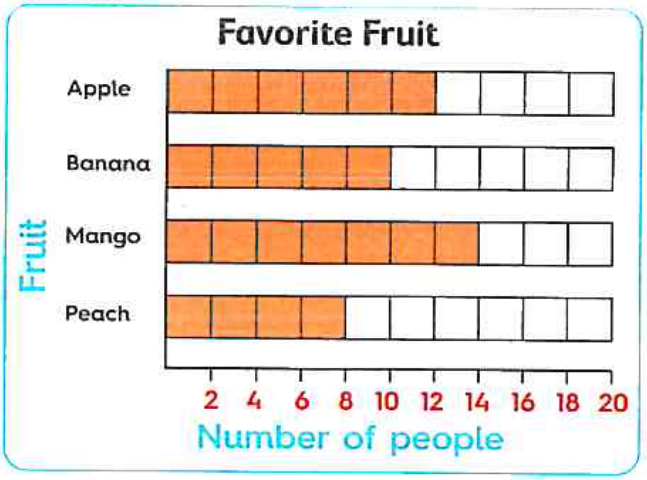
Sport	Tally	Number of students
Football	𝍸 𝍸 ||	12
Basketball	𝍸 ||	7
Tennis	𝍸	5
Handball	𝍸 |||	8



a. 7 students b. Football
c. Tennis

2 a. 26 , 28 [+ 2]
b. 15 , 10 [– 5]
c. 28 , 35 [+ 7]
d. 33 , 43 [+ 10]
e. 456 , 567 [+ 111]
f. 300 , 100 [– 200]

3

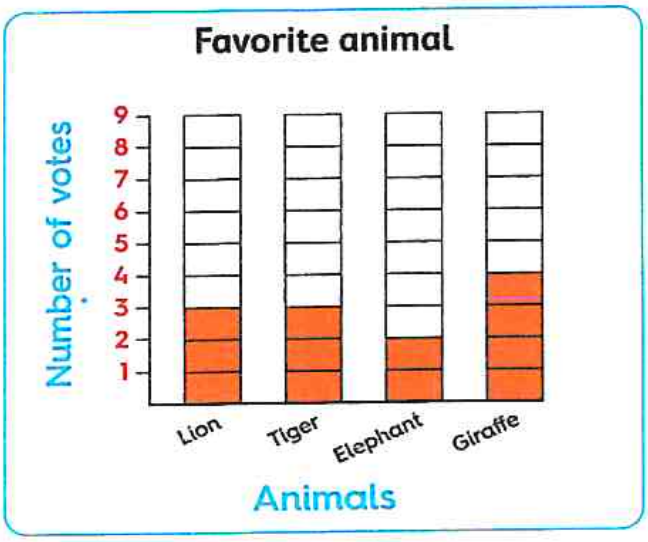


a. 10 persons b. 26 persons

4

Favorite animal

Kind	Tally	Number
Lion	|||	3
Tiger	|||	3
Elephant	||	2
Giraffe	||||	4

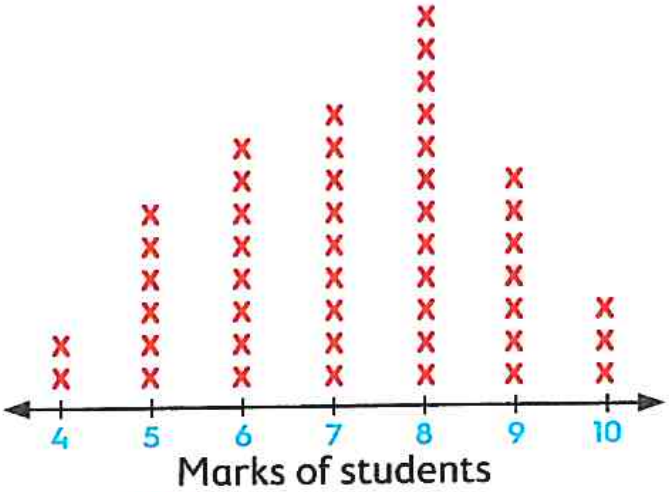


a. Giraffe b. Lion , Tiger
c. 2 persons d. 1 person

Sheet 3

1

Marks of students in math exam



Key Each X = 1 student

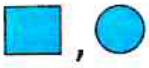
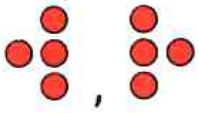
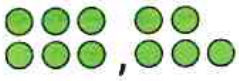
2

Favorite Color	
Color	Tally
Yellow	卌 卌 卌 卌
Blue	卌 卌 卌 卌 卌 卌 卌
Red	卌 卌 卌 卌 卌
Green	卌 卌 卌

a. 25 students b. Green
c. Blue d. 40 students

3 a. 4 children b. 5 children
c. 5 children d. 7 children

4 a. 10 children b. Saturn
c. 7 children d. 3 children

5 a. 31 , 28 b. 24 , 30
c. 39 , 49 d. 10 , 15
e.  f. 
g. 

Sheet 4

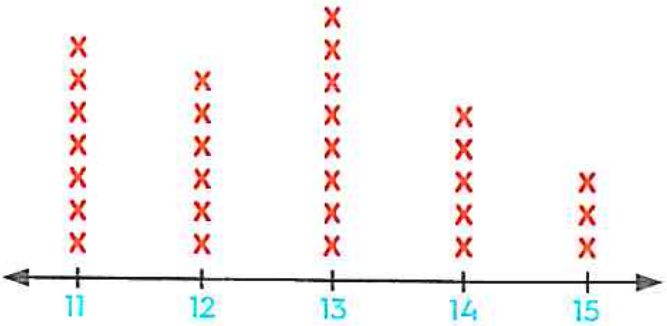
1 a. 7 , 70 b. 2 c. 4
d. 22 e. 7,70

2 a. 3 b. 200 c. cm
d. m e. <

3

Length of hand		
Length	Tally	Number
11 cm	卌 ||	7
12 cm	卌 |	6
13 cm	卌 |||	8
14 cm	卌	5
15 cm	|||	3

Lengths of hand



Key Each x = 1 child

Assessment - Chapter 1

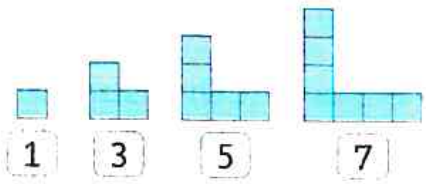
1 a. 50 b. 2 , 50
c. 2 d. 45 , 44

2 a. 3 b. 38
c. 2 d. 5

3 a. ✗ b. ✓ c. ✓ d. ✗

4 The order is : 77 cm , 70 cm , 77 mm , 70 mm

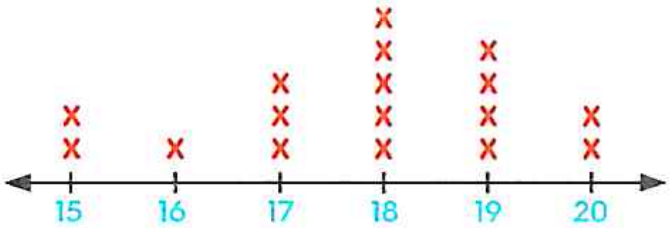
5



6 a. > b. >
c. < d. <

7

Marks of students in an exam



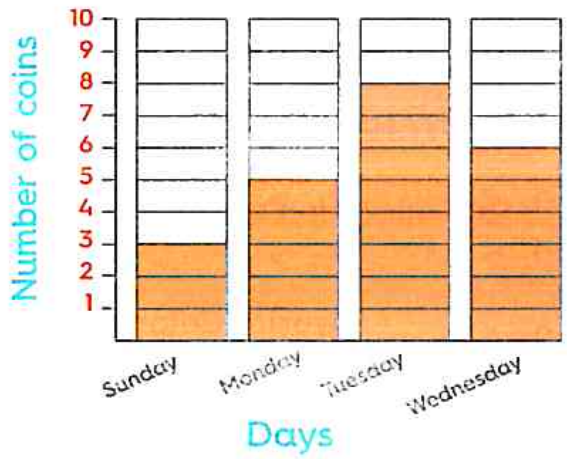
Number of students

Key Each x = 1 student

8

Saved coins		
Day	Tally	Number
Sunday	|||	3
Monday	𝍸	5
Tuesday	𝍸 |||	8
Wednesday	𝍸 |	6

Saved coins



Sheet 5

1 a. 921,458
b. 900,000 + 20,000 + 1,000 + 400 + 50 + 8
c. Nine hundred twenty-one thousand, four hundred fifty-eight.

2 The order is : 978 , 4,792 , 7,563 , 8,460

3 a. 9,730 b. 3,079

4 a. 7,038 b. 500
c. 3,206 d. Thousands
e. 30 f. 3
g. 120 h. 8

Sheet 6

1 a. Ten thousands b. 0
c. 304,789 d. 750,906
e. 48

2 a. 7,400 b. ◆ ■
c. 642,713 d. 7,000

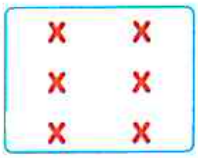
3 a. < b. > c. <
d. > e. > f. =

4 a. ✗ b. ✗ c. ✓
d. ✗ e. ✓

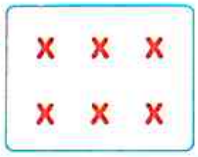
Sheet 7

1 a. 3 , 4 , 12 b. 4 , 2 , 8

2 a.



b.



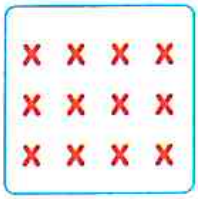
3 a. Ten thousands b. <
c. 987, 540 d. 3
e. 800, 000

4 a. 300,000 + 10,000 + 4,000 + 50 + 2
b. 70,000 + 2,000
c. 30,000 + 7,000 + 500 + 60 + 1
d. 10,000 + 4,000 + 30 + 1

Sheet 8

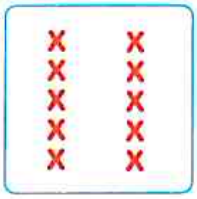
1 a. ✓ b. ✓ c. ✗
d. ✓ e. ✗ f. ✗

2 a.



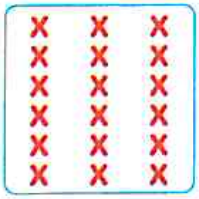
3 x 4 = 12

b.



2 x 5 = 10

c.

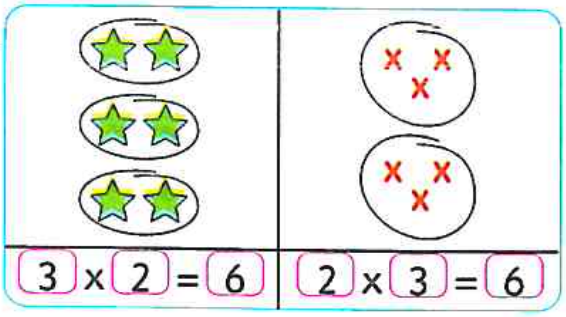


6 x 3 = 18

3 a. ⟶ Ten thousands
b. ⟶ Hundred thousands
c. ⟶ Ones
d. ⟶ Hundreds
e. ⟶ Thousands
f. ⟶ Tens

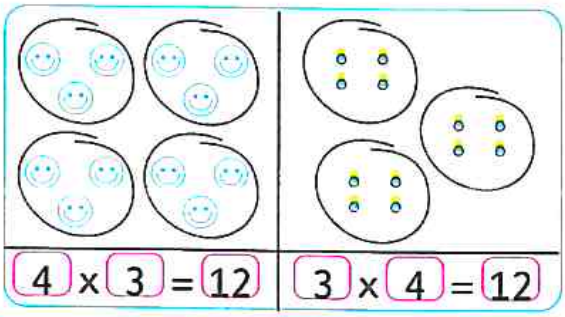
Sheet 9

1 a.



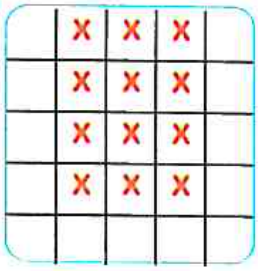
3 x 2 = 6 | 2 x 3 = 6

b.



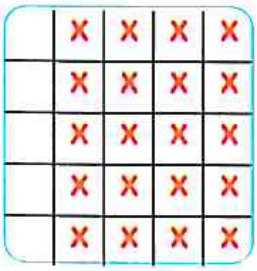
4 x 3 = 12 | 3 x 4 = 12

2 a.



4 x 3 = 12

b.



5 x 4 = 20

3 a. ✓ b. ✓ c. ✗
d. ✗ e. ✗ f. ✗

Assessment - Chapter 2

1 a. 30,000 b. 258,731
c. 6,000 + 200 + 30 + 9
d. = e. > f. 3

2 a. → 4 + 4 + 4
b. → 5 + 5 + 5 + 5
c. → 2 × 3
d. → 3 × 5

3 a. ✓ b. ✗ c. ✗ d. ✗

4 a. 3 b. 2
c. 50,050 d. 3 , 6 , 18
e. 5 + 5 f. 0
g. 4 rows of 3
4 × 3 = 12
h. 5 groups of 2
5 × 2 = 10

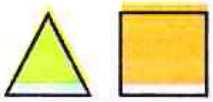
5 a. The order is : 812,926 , 812,437 , 100,369 , 99,512 , 766
b. The order is : 7,403 , 43,007 , 304,700 , 307,040

6 a. > b. = c. >
d. > e. > f. <
g. = h. >

Accumulative Assessment

Till chapter 2

1 a. 3 × 5 , 3 × 6 b. 5
c. 5,631 d. 1,500
e.



2 a. ✗ b. ✓ c. ✗
d. ✓ e. ✗

3 a. 5 b. 30
c. 9 d. 9
e. 55 f. 60

4 a. ⟶ 20 mm
b. ⟶ 200 cm
c. ⟶ 1 m
d. ⟶ 100 mm

5 a. 6 b. 3 c. 9

6

2 + 2 + 2 = 6
3 × 2 = 6

7 a. The order is : 7,482 , 12,158 , 54,658 , 954,201
b. The order is : 833,400 , 833,312 , 83,987 , 8,315

Sheet 10

1 a. 8 b. 3,700
c. 87,520 d. 12

2 a. 4,000 , 60 , 2 b. 2 , 3
c. 6 d. 10

3 a. 3 × 4 = 12 peanuts
b. 7 × 3 = 21 mangoes
c. 3 × 5 = 15 balls

Sheet 11

1 a. 12 b. 12 c. 0
d. 24 e. 8 f. 10
g. 18 h. 32 i. 24
j. 8 k. 27 l. 16
m. 20 n. 0 o. 14

2 a. 10 b. 12
c. 204,678 d. Thousands
e. 5

3 a. 32 , 34 , 36 , 38 , 40 , 42 , 44 , 46 , 48 , 50 , 52 , 54 , 56 , 58
b. 33 , 36 , 39 , 42 , 45 , 48 , 51 , 54 , 57
c. 36 , 42 , 48 Answer may vary

Sheet 12

1 a.
- 6 × 5 = 30
- 7 × 4 = 28
- 6 × 2 = 12
- 6 × 6 = 36
- 7 × 6 = 42
- 5 × 7 = 35
- 7 × 0 = 0
- 3 × 9 = 27
- 2 × 10 = 20

b.
- 7 × 3 = 21
- 5 × 9 = 45
- 7 × 7 = 49
- 5 × 6 = 30
- 5 × 5 = 25
- 6 × 8 = 48
- 3 × 5 = 15
- 5 × 4 = 20
- 7 × 9 = 63

c.
- 6 × 4 = 24
- 6 × 10 = 60
- 1 × 3 = 3
- 7 × 5 = 35
- 6 × 3 = 18
- 7 × 8 = 56
- 0 × 8 = 0
- 6 × 9 = 54
- 5 × 8 = 40

2 a. < b. > c. >
d. < e. > f. =
g. = h. < i. <
j. >

3 a. ✗ b. ✓ c. ✗
d. ✓ e. ✓ f. ✗
g. ✓

Sheet 13

1 a.
- $8 \times 2 = 16$
- $9 \times 5 = 45$
- $8 \times 6 = 48$
- $10 \times 2 = 20$
- $8 \times 10 = 80$
- $10 \times 6 = 60$
- $9 \times 6 = 54$
- $8 \times 7 = 56$
- $9 \times 9 = 81$
- $8 \times 9 = 72$

b.
- $10 \times 3 = 30$
- $8 \times 1 = 8$
- $9 \times 7 = 63$
- $8 \times 5 = 40$
- $10 \times 7 = 70$
- $9 \times 8 = 72$
- $10 \times 5 = 50$
- $8 \times 4 = 32$
- $9 \times 3 = 27$
- $8 \times 3 = 24$

c.
- $6 \times 4 = 24$
- $5 \times 6 = 30$
- $6 \times 6 = 36$
- $4 \times 3 = 12$
- $7 \times 10 = 70$
- $6 \times 3 = 18$
- $4 \times 4 = 16$
- $0 \times 7 = 0$
- $8 \times 8 = 64$
- $6 \times 9 = 54$

2 a. ✓ b. ✗ c. ✓
d. ✗ e. ✓ f. ✓
g. ✓

3
- Multiples of 5 are , 15 , 20 , 25 , 30 , 35 , 40 , 45 , 50 , 55 , 60 , 65 , 70 , 75 , 80 , 85 , 90 and 95
- Multiples of 10 are , 20 , 30 , 40 , 50 , 60 , 70 , 80 and 90
- Common multiples of 5 and 10 are , 20 , 30 , 40 , 50 and 60

Answer may vary

Sheet 14

1

1	2	3	6
1 x 6 = 6			
2 x 3 = 6			
3 x 2 = 6			
6 x 1 = 6			

1	9	3	27
1 x 27 = 27			
3 x 9 = 27			
9 x 3 = 27			
27 x 1 = 27			

2	3	4	6
2 x 6 = 12			
3 x 4 = 12			
4 x 3 = 12			
6 x 2 = 12			

2

a. 20

1 × 20	20 × 1
2 × 10	10 × 2
4 × 5	5 × 4

Factors are :
1 , 2 , 4 , 5 , 10 and 20

b. 12

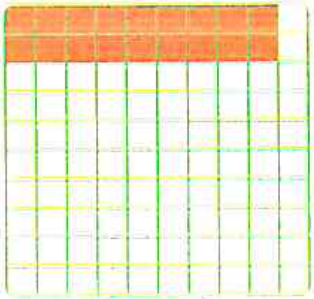
1 × 12	12 × 1
2 × 6	6 × 2
3 × 4	4 × 3

Factors are :
1 , 2 , 3 , 4 , 6 and 12

3

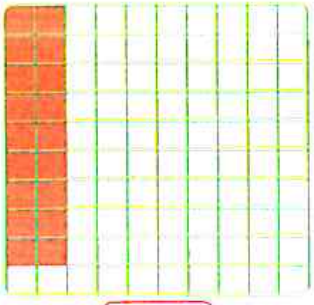
18

a.



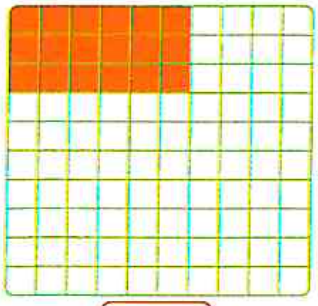
2 × 9

b.



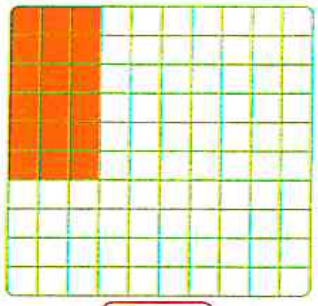
9 × 2

c.



3 × 6

d.



6 × 3

4 a. → 1 × 0 b. → 4 × 10

c. → 2 × 6 d. → 2 × 9

e. → 4 × 6

5 a.

5	5
× 0	× 0
5	0

Not correct

b.

7	7
× 5	× 5
12	35

Not correct

c.

6	
× 3	×
18	

Correct

d.

8	8
× 1	× 1
9	8

Not correct

6 a. 42 b. 54 c. 36

d. 70 e. 64 f. 35

g. 16 h. 63 i. 48

7 a. 3 equal rows

, 4 in each row , 12 in all

b. 2 equal columns

, 3 in each column , 6 in all

8 a. 30 b. 3,005

c. Ten thousands d. 3 × 9

e. <

Sheet 15

1 a. 01 : 25 b. 09 : 20

c. 01 : 50 d. 04 : 10

2 a. b.

c. d.

3

07 : 40

4 a. 4,000 b. 56 c. 70

d. 18 e. 24 f. 5

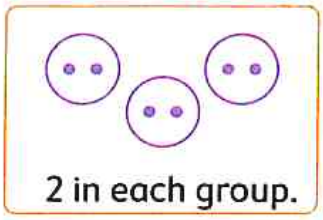
g. 4 × 7 = 28 h. 50

5 04 : 45

Sheet 16

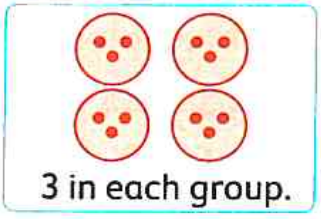
1

a. Divide 6 into 3 equal groups



2 in each group.

b. Divide 12 into 4 equal groups



3 in each group.

2 a. 32 b. 4 c. 39

3 4 apples

4 a. 102,479 b. 3,000

c. 8 d. 6

e. 6

Sheet 17

1 a. 4 b. 7 c. 7 d. 7
e. 9 f. 3 g. 9 h. 1
i. 8 j. 4 k. 6 l. 5

2 a. 6 b. 12 c. 7 d. 3
e. 56 f. 9 g. 3 h. 14
i. 5

3

a. $3 \times 9 = 27$
$9 \times 3 = 27$
$27 \div 3 = 9$
$27 \div 9 = 3$

b. $2 \times 7 = 14$
$7 \times 2 = 14$
$14 \div 7 = 2$
$14 \div 2 = 7$

4

08 : 25

5 a. 2,732 b. 50,809

Assessment - Chapter 3

1 a. 10 b. 12 c. 7
d. 2 e. 30 f. 4

2 1×18 18×1
2×9 9×2
3×6 6×3

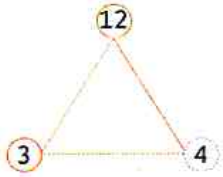
Factors are 1 , 2 , 3 , 6 , 9 and 18

3 01 : 25

4 a. 12 b. 0 c. 15
d. 6 e. 10

5 $5 \times 3 = 15$ balls.

6 $3 \times 4 = 12$
$4 \times 3 = 12$
$12 \div 3 = 4$
$12 \div 4 = 3$



Accumulative Assessment

Till chapter 3

1 a. ✓ b. ✗ c. ✗
d. ✗ e. ✓ f. ✗

2 a. 20 b. 7 c. 6
d. 35 e. 10 f. 5

3 a. ⟶ $36 \div 6$
b. ⟶ 1×5
c. ⟶ 2×6
d. ⟶ $7 \div 7$
e. ⟶ 2×1

4 a. 37,465 b. $9 + 9$ c. 8
d. 1,400 e. 72 f. 3

5 Order is : 9,009 , 9,999 , 91,005 , 91,500 , 99,007

6

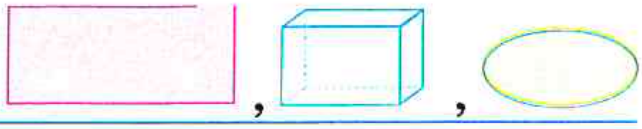
$3 \times 5 = 15$ $5 \times 3 = 15$ $15 \div 5 = 3$

7 $35 \div 7 = 5$ pounds.

8 a. 3 b. 5 c. 16

Sheet 18

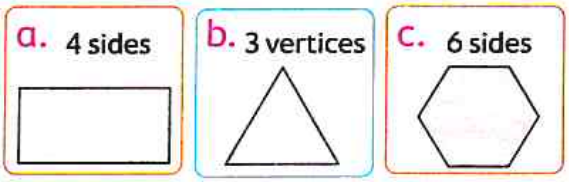
1



2
a. → 6×6
b. → 1×0
c. → 2×10
d. → 2×4
e. → $30 \div 3$

3
a. triangle
b. 6
c. 4
d. heptagon
e. 5 , 5
f. sides , vertices

4



Answer may vary

Sheet 19

1
a. Trapezium
b. Square
c. Rectangle
d. Parallelogram

2
a. 4
b. 2
c. 4
d. 1
e. 2
f. 7

3
a. $7 \times 2 = 14$
$14 \div 2 = 7$
$14 \div 7 = 2$

b. $9 \times 3 = 27$
$27 \div 3 = 9$
$27 \div 9 = 3$

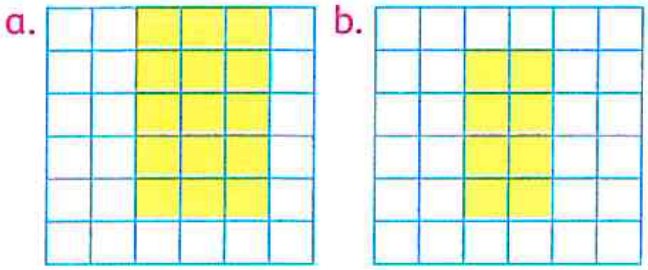
c. $3 \times 6 = 18$
$6 \times 3 = 18$
$18 \div 6 = 3$

4 $30 \div 6 = 5$ monkeys can be fed.

Sheet 20

1
a. Area = $4 \times 7 = 28$ □
b. Area = $4 \times 4 = 16$ square units
c. Area = 12 □

2



$5 \times 3 = 15$ $4 \times 2 = 8$

3
a. 2 , 4
b. 70,000 + 3,000 + 200 + 80 + 9
c. 3
d. 15,789
e. 4

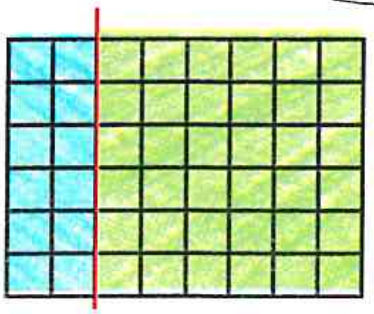
4
a. square
, 4
, 2
, 4

b. parallelogram
, 2
, 2
, 4

Sheet 21

1 a.

Answer may vary



6 × 2 = 12

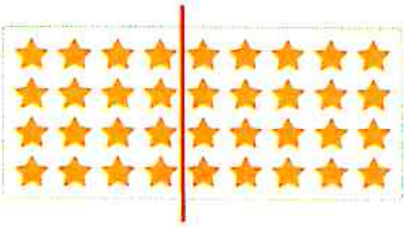
6 × 6 = 36

12 + 36 = 48

6 × 8 = 48

6 × 8 = (6 × 2) + (6 × 6)

b.



4 × 4 = 16

4 × 5 = 20

16 + 20 = 36

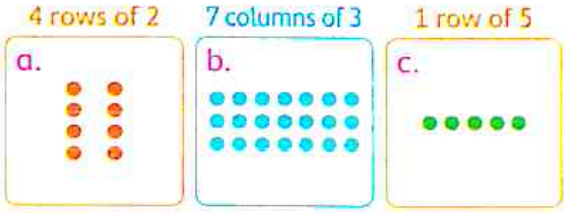
4 × 9 = 36

4 × 9 = (4 × 4) + (4 × 5)

2 a. 8 b. 8 , 5 c. 5 , 8
d. 3 , 5 e. 5 f. 7 , 6
g. 5 , 15 h. 3 , 13 i. 4 , 10
j. 6 , 12

3 a. 26 , 29 + 3
b. 22 , 20 − 2

4



5 a. 12 b. 32 c. 54
d. 50 e. 4 f. 5
g. 5 h. 4 i. 7,542
j. 5,089 k. 5 l. 2
m. 15

6 a. 03 : 25 b. 08 : 50
c. 01 : 45 d. 11 : 55

7 The order is : 79,999 , 390,571 , 391,897 , 735,429 , 745,216

Assessment - Chapter 4

1 a. Circle b. 6 sides
c. Trapezium d. 9 □
e. 4 × 9

2 The area = 6 × 8
= 48 square units

3 6 × 7 = (6 × 5) + (6 × 2)
= 42 square units

4 a. Rectangle, 4 , 4
b. Hexagon , 6 , 6

Accumulative Assessment

Till chapter 4

1 a. 765 , 876 b. 53,538
c. 10 d. 5
e. 300 f. 15
g. 3

2 a. ✗ b. ✓
c. ✓ d. ✓
e. ✗ f. ✓
g. ✗

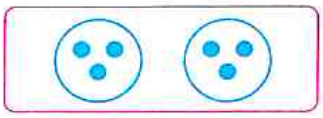
3 a. Area = 6 × 4
= 24 square units.

b. Area = 3 × 6
= 18 square units.

c. Area = 10 □

4 a. Parallelogram b. Trapezium
, 2 , 0
, 2 , 1
, 4 , 4

5

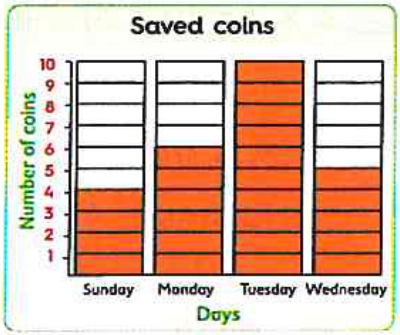


3 + 3 = 6
3 × 2 = 6

6

Saved coins

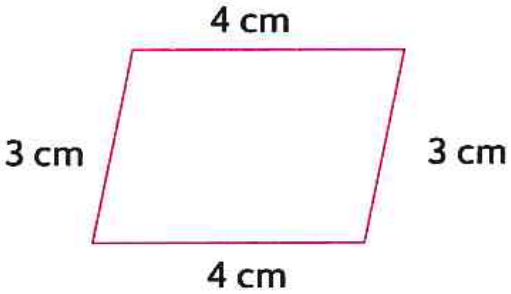
Day	Tally	Number
Sunday	IIII	4
Monday	~~IIII~~ I	6
Tuesday	~~IIII~~ ~~IIII~~	10
Wednesday	~~IIII~~	5



Sheet 22

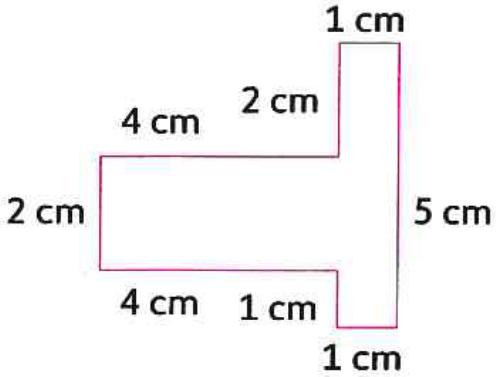
1 a. 14 , 12 b. 18 , 12

2 a.



Perimeter = 3 + 4 + 3 + 4
= 14 cm

b.

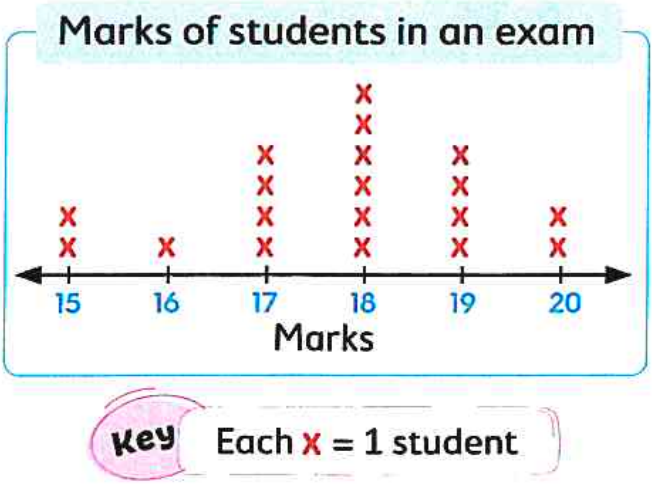


Perimeter = 1 + 2 + 4 + 2
+ 4 + 1 + 1 + 5
= 20 cm

3 Perimeter = 4 + 4 + 3 = 11 cm

4 a. trapezium b. 1
c. 2 × 6 d. 7 e. 12
f. 6 × 7 g. 24 h. 7
i. 305,251

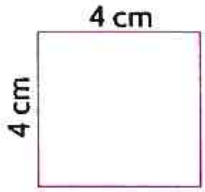
5



6 05 : 45

Sheet 23

1 a.



Area = 4 × 4
= 16 square centimeters

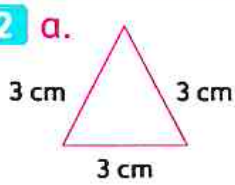
b.

Area = 5 × 2
= 10 square centimeters

c.

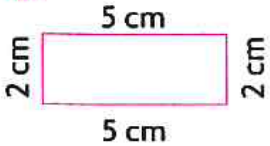
Area = 5 × 1 = 5 square centimeters

2 a.



- Perimeter = 3 + 3 + 3
  = 9 cm
- Name : Triangle

b.



- Perimeter = 5 + 2 + 5 + 2
  = 14 cm
- Name : Rectangle

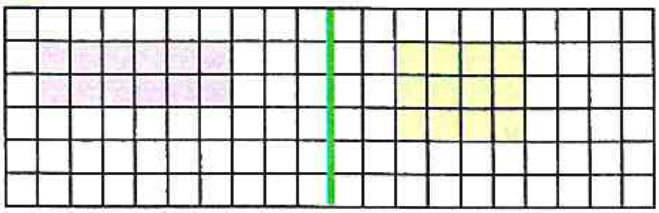
3 a. 36 , 40 , + 4

b. 20 , 15 , – 5

4 What Sara eats in a week = 5 × 7
= 35 carrots

Sheet 24

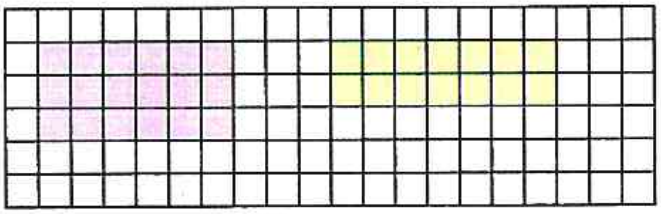
1



Area = 12 square units.
Perimeter = 16 length units.

Area = 12 square units.
Perimeter = 14 length units.

2



Area = 18 square units.
Perimeter = 18 length units.

Area = 14 square units.
Perimeter = 18 length units.

3 a. 9 × 3

b. 700,000 + 50,000 + 3,000 + 900 + 20

c. 42 d. 8 e. 200

Sheet 25

1 The perimeter
= 15 + 10 + 15 + 10 = 50 cm

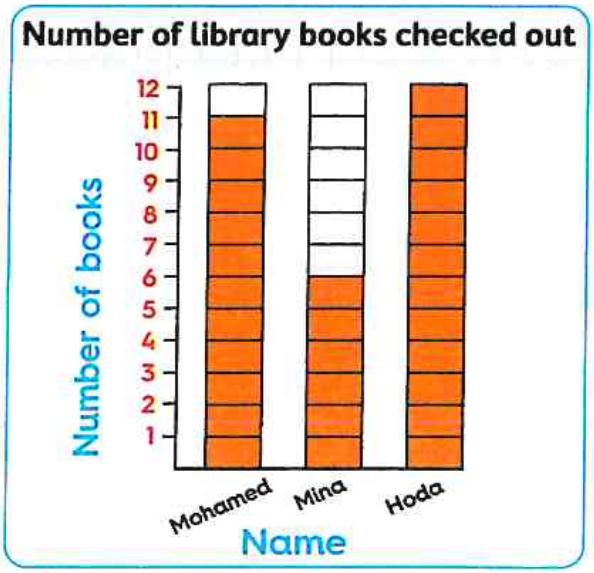
2 The area
= 4 × 5 = 20 square meters

3 The number of oranges in each plate = 21 ÷ 3 = 7 oranges

4 a. 20 b. 21 c. 42
d. 36 e. 5 f. 8

5 The order is : 579,989 , 589,979 , 740,852 , 952,640

6



a. 11 b. 18

Sheet 26

1 a. 300 b. 60 c. 200
d. 140 e. 480 f. 270
g. 150 h. 420 i. 280
j. 180 k. 210 l. 450

2 a. 53,004 b. Thousands
c. 98,310 d. 10 e. 36
f. $3 \times 2 = 6$ □

3 $5 \times 8 = 40$
$8 \times 5 = 40$
$40 \div 5 = 8$
$40 \div 8 = 5$

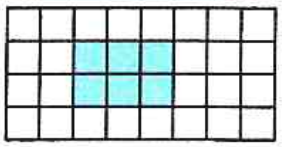
4 a. < b. > c. >
d. < e. = f. =

Assessment - Chapter 5

1 a. Perimeter = 12 cm
Area = 8 square centimeters

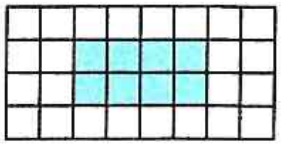
b. Perimeter = 16 cm
Area = 15 square centimeters

2



Answers may vary

3



Answers may vary

4 a. → 60×2
b. → 6×30
c. → 6×10
d. → 4×40

5 The length of the border
$= 40 + 30 + 40 + 30$
$= 140$ cm

Accumulative Assessment

Till chapter 5

1 a. 30,003 b. △ , ▭
c. 9 d. 6
e. 10 f. 20
g. 210

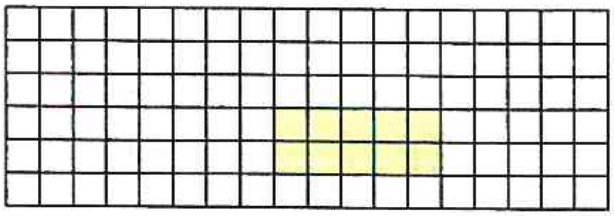
2 a. > b. =
c. 100 d. 10
e. 6,000

3 a. ✓ b. ✓ c. ✗
d. ✓ e. ✗

4 The perimeter
$= 3 + 1 + 3 + 1 = 8$ m

5 a. half past 1 — 01 : 30
b. quarter to 5 — 04 : 45

6 Answers may vary

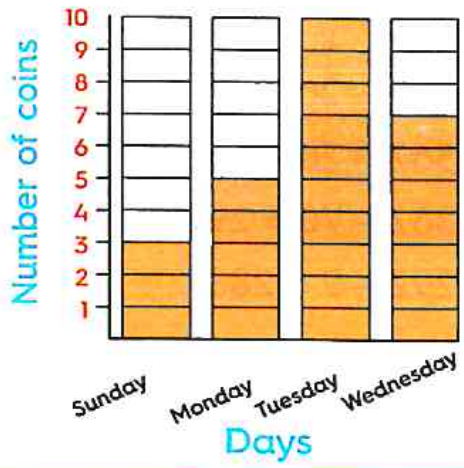


7

Saved coins

Day	Tally	Number
Sunday	|||	3
Monday	卌	5
Tuesday	卌 卌	10
Wednesday	卌 ||	7

Saved coins



Sheet 27

1 a. 150 b. 800 c. 18,000
d. 3,500 e. 1,200 f. 32,000
g. 1,800 h. 7,200 i. 2,800

2 a. $2 \times 2 = 4$ b. $2 \times 3 = 6$
c. $5 \times 3 = 15$ d. $4 \times 1 = 4$
e. $2 \times 4 = 8$ f. $4 \times 4 = 16$
g. $9 \times 3 = 27$

3 $6 \times 3 + 6 \times 2 = 18 + 12 = 30$

4 a. Trapezium b. Parallelogram
c. Square d. Rectangle

Sheet 28

1 a. 2 b. 5 c. 54
d. 63 e. 4 f. 0
g. 72 h. 9 i. 90
j. 64 k. 42 l. 9
m. 49 n. 8 o. 3

2 The order is : 204,111 , 203,415 , 170,072 , 52,791

3 a. 01 : 15 b. 05 : 55
c. 04 : 40

4 a. 200 mL b. 2 L c. 350 mL

5 The length of fence = 150 + 100 + 150 + 100 = 500 m

Sheet 29

1 a. 5 b. 24 c. 0 d. 3
e. 1 f. 81 g. 10 h. 9
i. 2 j. 0 k. 1 l. 10
m. 5 n. 2 o. 0

2 a. 3 b. 8 c. 6

3 a. 2 , 4 , 8 b. 1 , 6 , 6

4 The order is : 97,988 , 178,000 , 201,003 , 432,823

Sheet 30

1 a. 50,000 b. 79,999
c. 705,030
d. Hundred thousands
e. 0 × 10 f. 74,005
g. < h. 10

2 a. 2 b. 7 c. 6 d. 7
e. 3 f. 2 g. 45 h. 14
i. 56 j. 5 k. 4,200 l. 72

3 a. Rectangle , 4 , 4
b. Hexagon , 6 , 6
c. Triangle , 3 , 3

Sheet 31

1 a. 700 + 20 + 8
100 + 80 + 9
800 + 100 + 17 = 917

```
 ①①
  728
+ 189
  917
```

b. 500 + 40 + 3
50 + 8
500 + 90 + 11 = 601

```
 ①①
  543
+  58
  601
```

2 a. 315 + 148 = 463
b. 166 + 294 = 460

3 a. 02 : 00
It's 2 o'clock
b. 11 : 45
It's quarter to 12
c. 04 : 15
It's quarter past 4

4 a. mm b. m

Sheet 32

1 a.

```
   4  15  12
   5   6   2
 - 2   7   9
   2   8   3
```

279 = 200 + 70 + 9
562 – 200 = 362
362 – 70 = 292
292 – 9 = 283

b.

```
     7  10
   3  8   0
 -    7   4
   3   0   6
```

74 = 70 + 4

380 – 70 = 310

310 – 4 = 306

2 a. > b. > c. = d. >
e. > f. > g. < h. >
i. = j. = k. >

3 a. 3,600 b. 56,000 c. 32
d. 20,000 e. 81 f. 56
g. 43 , 53

4 The area = 3 × 2 = 6 square meters
She will need 6 tiles.

Sheet 33

1 What she has left = 435 – 118
= 317 cards

2 The greatest number
= 416 + 245 = 661 passengers

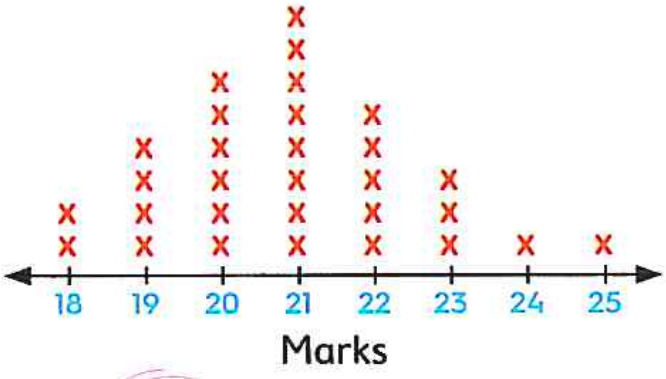
3 The price of the mobile and
speaker = 3,250 + 675
= 3,925 pounds
What has left = 6,000 – 3,925
= 2,075 pounds

4 a. 903 b. 945 c. 60
d. 3,829 e. 750 f. 585

5

Marks of students in an exam		
Marks	Tally	Number of students
18	||	2
19	||||	4
20	~~||||~~ |	6
21	~~||||~~ |||	8
22	~~||||~~	5
23	|||	3
24	|	1
25	|	1

Marks of students in an exam

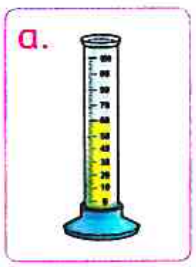


Key Each x = 1 student

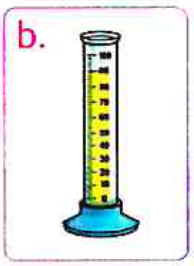
Sheet 34

1 a. 11,000 b. 70 c. 4
d. 56 e. mL f. 2,100
g. 7 h. 17,600

2 a.



b.



3

a.

b.

Assessment - Chapter 6

1 a. 641 b. 2,000 c. 21,000
d. 40,000 e. 806,258 f. 7

2 a. 885 b. 3,850 c. 4,265
d. 3,749

3

4 a. 63 b. 3 c. 120
d. 7,000 e. 5 f. 4

5 The cost of T.V. and speaker =
4,500 + 375 = 4,875 L.E.
The money left = 7,000 – 4,875
= 2,125 L.E.

Accumulative Assessment

Till chapter 6

1 a. ✗ b. ✓ c. ✓
d. ✗ e. ✗ f. ✓

2 a. 4 5 6 , 5 6 7
b. 5 c. 5
d. Hundreds e. 25 f. 7

3 a. 459 b. 424
c. 6,613 d. 4,433

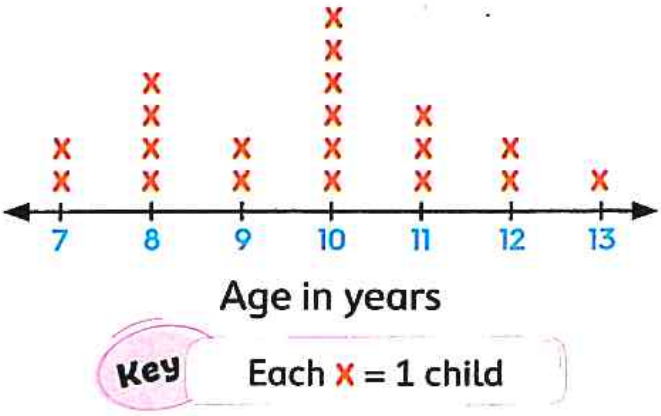
4 The total amount = 540 + 475
= 1,015 pounds

5 a. 7 b. 7 c. 21
d. = e. 7 f. 20

6 a. → 7,419 b. → 374
c. → 335 d. → 509

7

Ages of children in karate class



a. 3 b. 10 c. 20

Answers of Monthly Tests

October Tests

Test 1

1 a. 5 b. 8,540 c. 3
d. 9 e. >

2 a. – 5 b. 1 , 70 c. 5
d. Ten Thousands.
e. 0

3 a. The time is 04 : 50
b. 1. 4 students.
2. 7 students.

Test 2

1 a. 2 b. 30 c. 4,000
d. 16,048 e. 9

2 a. two hundred eleven thousand , nine hundred sixty-five.
b. 5 c. 6
d. 100 e. 24

3 a. The order is : 3,581 , 5,831 , 50,318 , 102,007
b. What he will save
= 9 × 8 = 72 pounds.

Test 3

1 a. 3 × 5 b. > c. 4,000
d. 6 e. 800,000

2 a. 01 : 45
b. 50,000 + 6,000 + 200 + 7
c. 9 d. 12
e. 5 × 9

3 a. 3 × 3 = 9

b. • Least number is 40,568
• Greatest number is 86,540

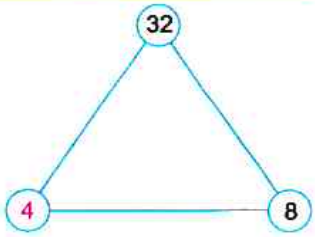
November Tests

Test 1

1 a. 7 b. a pentagon c. 4
d. 3 e. >

2 a. a trapezium. b. 18
c. 6 d. 5 × 9
e. 10

3 a. 4 × 8 = 32
8 × 4 = 32
32 ÷ 4 = 8
32 ÷ 8 = 4



b. Number of monkeys
= 20 ÷ 5 = 4 monkeys.

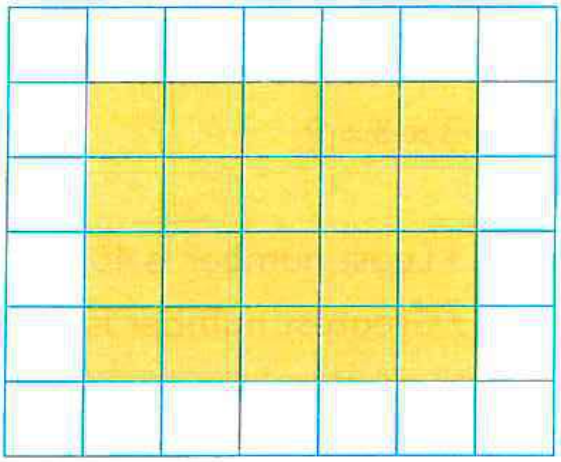
Test 2

1 a. circle b. 24 c. 15
d. = e. 8

2 a. trapezium b. 16
c. 4 d. heptagon
e. 2

3 a. Number of oranges
$= 18 \div 6 = 3$ oranges.

b.



(Answer may vary)

Test 3

1 a. 9 b. trapezium
c. 9 d. 9
e. rectangle

2 a. 4 b. 6 c. 14
d. 4 e. 8

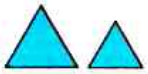
3 a. $6 \times 7 = (6 \times 5) + (6 \times 2)$
$= 42$ square units.

b. Number of pens $= 64 \div 8$
$= 8$ pens.

Answers of General Revision

Chapter 1

1 1. 5 2. 28 3. 35
4. 49 5. 48 6. 50
7. 3,400 8. + 4 9. + 5
10. m 11. centimeter
12. 300 13. 32 14. 505
15. 80 16. 150 17. 7
18. 30 19. < 20. <
21. < 22. 4 23. 8

2 1. 2 2. 50
3. 57 , 47 4. 122 , 125
5. 26 , 30 6. 150
7. 
8. a. b. 20 c. 50
9. – 2

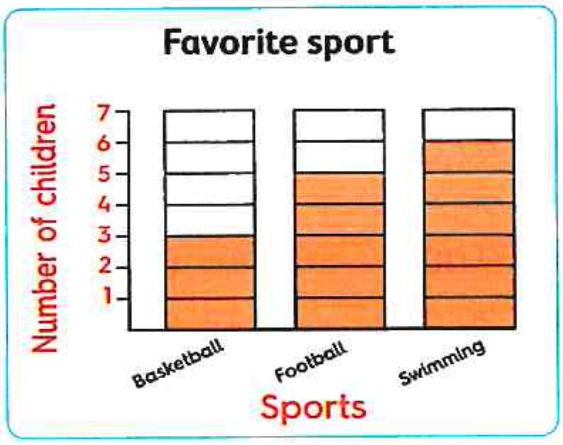
3 a. 37 mm b. 58 mm
c. 50 mm d. 43 mm
e. 26 mm
The order is : 26 mm , 37 mm , 43 mm , 50 mm , 58 mm

4 1. 4 2. 8 3. 12

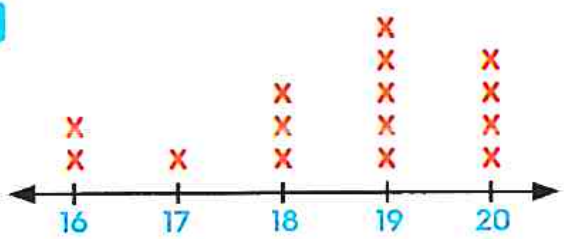
5

Favorite sport

Sport	Tally	Number
Basketball	|||	3
Football	卌	5
Swimming	卌 |	6



6



Key Each x = 1 student

7

Favorite ice cream flavor

Flavor	Tally
Chocolate	卌 |
Vanilla	卌 卌 ||
Caramel	卌
Strawberries	卌 ||||

1. 32 2. 12
3. strawberries 4. caramel

8 1. 1 child 2. 2 children
3. 7 children

Chapter 2

1 1. 9,000 2. 400
3. 9,835 4. 7,502
5. 60,543 6. 8,035

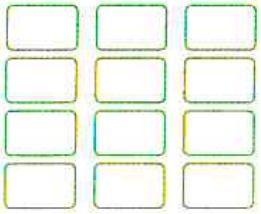
7. 62,319 8. 200,500
9. 60,460 10. 9,648
11. 47,000 12. 34 thousands
13. 7 14. 400
15. 9,000 16. 0
17. 20,000 18. 900,000
19. tens 20. thousands
21. ten thousands 22. 3,000
23. 4,600 24. 5,002
25. 300 26. 8
27. 36 28. 40
29. = 30. >
31. = 32. 98,765
33. 4,255 34. 97,420
35. 30,789 36. 3 × 4
37. 24 38. 28
39. 36 40. 4 × 6
41. 6 42. 3
43. 6 44. 4 × 4
45. 5 46. 7

2 1. 1,549 2. 75,432
3. 60,000 + 5,000 + 200 + 1
4. 2,705 5. 8,043
6. 9,125
7. Expanded form : 8,000 + 500 + 60 + 2
Word form : Eight thousand , five hundred sixty-two
8. 0 9. 70,000
10. a. 54,321 b. 12,345
11. 97,210
12. a. Name of array : 2 by 5
b. Total number of square = 10
13. a. Number of raws = 2
b. Number of columns = 3
c. Total number of items = 6
14. **3 × 7 = 7 + 7 + 7 = 21**

3 1. > 2. = 3. > 4. >
5. > 6. < 7. = 8. >

4 1. 2 × 2 = 4 2. 3 × 2 = 6
3. 3 × 5 = 15

5



3 × 4 = 12

6 1. The order is : 1,672 , 2,345 , 3,265 , 5,437
2. The order is : 3,765 , 45,714 , 65,621 , 888,563
3. The order is : 7,234 , 7,235 , 11,012 , 12,011 , 109,001

7 1. The order is : 54,631 , 12,464 , 3,433 , 2,154
2. The order is : 304,109 , 203,415 , 170,072 , 52,791
3. The order is : 17,003 , seventeen thousands , 9,000 , 1,700

Chapter 3

1

1. 14	2. 18	3. 8 × 7
4. 81	5. 63	6. 8
7. 12	8. 20	9. 6
10. 16	11. 12	12. 14
13. 30	14. 3	15. 12
16. 20	17. 27	18. 15
19. 3	20. 3	21. 15
22. 10	23. 12	24. 1 , 2 , 3 , 6
25. 15	26. 30	27. 4 : 15
28. half past nine		
29. 4	30. 6	31. 9
32. 6	33. 6	34. 7
35. 4	36. 4	37. 8
38. 7	39. 9	40. 9
41. 2	42. <	43. =
44. <	45. =	46. =
47. 3	48. 10	49. 3

2

1. 27	2. 5	3. 3
4. 8	5. 8	6. 0
7. 24	8. 25	9. 4
10. 9	11. 8	12. 8
13. 7	14. 63	15. 20
16. 90	17. 72	18. 6

3

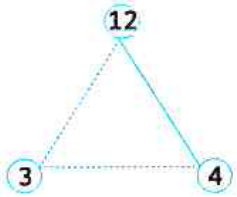
1. <	2. <	3. >	4. =
5. =	6. <	7. >	8. >

4

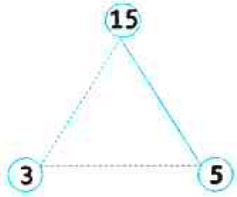
1. 2 , 4 , 6 , 8 , 10	
2. 6 , 9	3. 10 , 20 , 30
4. 1 , 2 , 4 , 8	5. 1 , 3 , 9
6. 20	7. 6

5

1. Malek runs = 3 × 7 = 21 miles.
2. Pencils in 8 boxes = 5 × 8 = 40 pencils.
3. Number of apples = 5 × 4 = 20 apples.
4. The number of notebooks = 8 × 3 = 24 notebooks.
5. The number of bags = 3 × 4 = 12 bags.
6. The number of apples in each bag = 20 ÷ 4 = 5 apples.
7. Number of fish in each tank = 63 ÷ 7 = 9 fish.
8. The share of each child = 30 ÷ 6 = 5 toys.
9. The price of each pen = 35 ÷ 5 = 7 pounds.
10. Number of books on each shelf = 32 ÷ 4 = 8 books.
11. 3 × 4 = 12
    4 × 3 = 12
    12 ÷ 3 = 4
    12 ÷ 4 = 3



12. 3 × 5 = 15
    5 × 3 = 15
    15 ÷ 3 = 5
    15 ÷ 5 = 3



13. 1×18 18×1
2×9 9×2
3×6 6×3

14. $9 \times 8 = 72$ $72 \div 8 = 9$
$8 \times 9 = 72$ $72 \div 9 = 8$

15. 06 : 00
It's 6 o'clock

16. 09 : 20

17. It is quarter past 7

18.

19. 2 hours

20. 75 minutes

21. 03 : 45

22. Start 02 : 00 End 02 : 40

Elapsed time : 40 minutes

Chapter 4

1 1. triangle 2. square
3. rectangle 4. rhombus
5. trapezium 6. pentagon
7. a circle 8. a trapezium
9. 4 10. 3 11. 4
12. 5 13. 6 14. 7
15. 3 16. square 17. 4
18. 6 19. 2 20. 1
21. parallelogram 22. trapezium
23. triangle 24. rhombus
25. square 26. rhombus
27. 4 28. 10 29. 9
30. 2 31. 5 32. 4
33. 5 34. 3 35. 6
36. (6×7) 37. 5 38. 12
39. 6×7 40. 10

2 1. A square , 4 , 2
2. A rectangle , 2 , 2 , 4
3. A parallelogram , 2 , 2 , 4
4. A rhombus , 4 , 2 , 4
5. A trapezium , 0 , 1 , 4

3 1. parallel 2. 4 3. 2
4. an octagon 5. 12 6. 3
7. 3 8. 15 9. 7×15

4 1. $2 \times 4 = 8$ 2. $3 \times 6 = 18$
3. $5 \times 4 = 20$ 4. $5 \times 6 = 30$
5. $6 \times 4 = 24$ 6. $4 \times 4 = 16$

5 1. A triangle
2. A square and a rectangle
3. $5 \times 3 = 15$
4. 6
5. $9 \times 5 = 45$

6 1. $4 \times 8 = (4 \times 4) + (4 \times 4)$
2. $7 \times 14 = (7 \times 10) + (7 \times 4)$

Chapter 5

1

1. 24	2. 20	3. 80
4. 14	5. 25	6. 10
7. 24	8. 6 × 6	9. 36
10. 60	11. 300	12. 320
13. 21	14. 150	15. 5
16. 3		

2

1. Triangle , 3 , 11
2. The perimeter = 3 + 4 + 5
   = 12 cm
3. 12
4. 12 cm
5. 12 cm
6. 20
7. The perimeter = 5 + 5 + 5 + 5
   = 20 cm
8. The perimeter = 6 + 4 + 6 + 4
   = 20 cm
9. Its perimeter = 3 + 2 + 3 + 2
   = 10 meters
10. The length of the border :
    15 + 15 + 15 + 15 = 60 cm
11. The perimeter = 15 + 10 + 15
    + 10 = 50 cm
12. The area = 3 × 7
    = 21 square centimeter
13. The area = 9 × 9
    = 81 square meters
14. The area = 10 × 3
    = 30 square meters
15. The number of tiles = 8 × 5
    = 40 tiles
16. Its area = 3 × 3
    = 9 square meters
17. He paid = 20 × 3 = 60 pounds
18. (3 × 5) × 10 = 15 × 10 = 150
19. (6 × 4) × 10 = 24 × 10 = 240
20. 10 × (9 × 5) = 10 × 45 = 450

3

1. 12 , 8	2. 12 , 9	3. 18 , 18
4. 18 , 20	5. 22 , 28	6. 26 , 40
7. 36 , 24	8. 30 , 50	9. 18 , 20

4

1. 80	2. 450	3. 240
4. 270	5. 180	6. 280
7. 350	8. 150	9. 180

Chapter 6

1

1. 1,200	2. 1,200	3. 2,000
4. 40	5. <	6. <
7. <	8. >	9. <
10. 316	11. 38	12. 241
13. the length		14. liter
15. milliliter		16. liter
17. 1,000	18. 4,000	19. 24,000
20. 70	21. 7	

2

1. 40	2. 12	3. 180
4. 3,000	5. 81	6. 0
7. 350	8. 0	9. 5,400
10. 32	11. 6	12. 1,400
13. 72	14. 21,000	15. 18,000
16. 20,000	17. 0	18. 2,700

3 1. > 2. > 3. > 4. >
5. > 6. = 7. < 8. >
9. = 10. >

4 1. The order is : 24,362 , 325,261 , 532,271 , 532,272
2. The order is : 3 hundreds , 30,000 , three hundred thousands

5 1. The order is : 5,210 , 5,201 , 5,102 , 5,021
2. The order is : 74 hundreds , 7070 , seven thousands , 70 tens

6 1. 357 2. 341 3. 876
4. 826 5. 2,807 6. 383
7. 6,670 8. 5,331 9. 4,718
10. 2,297 11. 1,950 12. 281
13. 851 14. 2,120 15. 9,800
16. 4,436 17. 6,084 18. 10,280
19. 6,464
20. ① 448 ② 265
21. ① 3,372 ② 7,890
22. ① 1,900 ② 2,392
23. ① 422,208 ② 369,809

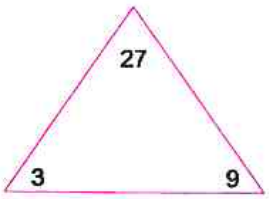
7 1. ① 150 ② 1,500
2. 12
3. ① 315 ② 320
③ 1,085
4. ① 7,696 ② 3,283
③ 40
5. ① 4,575 ② 3,780
③ 28,000
6. **(142 + 279)** + 116
(421) + 116 = **537**
7. The total money Mohanad will pay = 4,130 + 680
= 4,810 pounds.
8. He saved = 320 + 333
= 653 pounds
9. The remainder
= 4,800 – 3,465
= 1,335 pounds
10. Total money with her
= 7,522 + 1,135
= 8,657 pounds
11. Sara paid = 5 × 30
= 150 pounds
12. The number of balls
= 60 × 6 = 360 balls
13. The number of chairs
= 6 × 30 = 180 chairs
14. Mark bought = 6 × 12
= 72 eggs

Answers of Directorates Exams

1 Cairo

1
1. 30,789 2. 18
3. rhombus 4. > 5. 6
6. 32,032 7. 300 8. 36
9. 4 × 6

2
1. **27 ÷ 9 = 3**
   3 × 9 = 27



2. **The order is :** 8,254 , 5,248 , 4,285 , 2,458
3. 6,084
4. 0 , 2 , 4 , 6 , 8 , 10 , 12
5. 12
6. Start 02 : 00 End 02 : 40
   Elapsed time : 40 minutes
7. The number of eggs = 12 × 6 = 72 eggs

2 Cairo

1
1. 9,000 2. 24 3. m
4. 5 5. 3 6. 6
7. 3 × 5 8. 62,319 9. <

2
1. 1 × 18 , 18 × 1 , 2 × 9 , 9 × 2 , 3 × 6 , 6 × 3
2. **a.** ◯ △ **b.** 20 **c.** 50
3. 800,000 + 10,000 + 2,000 + 4
4. **a.** 315 **b.** 320
   c. 1,085
5. **The order is :**
   5,102 , 5,201 , 5,210
6. The length of the wood
   = 4 + 1 + 4 + 1 = 10 meters.
7. Perimeter = 22 meters.
   Area = 28 square meters.

3 Cairo

1
1. 4 2. 3 3. 70,000
4. milliliter 5. 47 6. 4
7. 80 8. 14 9. >

2
1. The total money Mohanad will pay = 4,130 + 680
   = 4,810 pounds.
2. 20 3. 12 4. 6
5. 5 6. 3
7. 86,540

4 Giza

1
1. 98,765 2. 2 × 4
3. pentagon 4. 4 5. 4

2
1. = 2. 35
3. 0 4. 17,000

3
1. **a.** 3,372 **b.** 7,890
2. **The order is :** 4,784 , 5,012 , 5,336 , 9,835

4 1. Sara paid = 30 × 5
= 150 pounds.

2. 60,000 + 5,000 + 200 + 1

5 1. The perimeter = 5 + 5 + 5
= 15 cm

2. The area = 6 × 5
= 30 square meters.

3. a. 6 b. 2

5 Giza

1 1. 5,000 2. 4,000
3. triangle 4. 36 5. 3,000
6. 99,999 7. 4 8. 9,648
9. 30

2 1. The number of pencils
= 5 × 8 = 40 pencils.

2. **The order is :**
15,230 , 32,051 , 53,201

3. The area = 5 × 5
= 25 square centimeters.

4. The name is a rectangle
The number of vertices is 4
The perimeter = 3 + 6 + 3 + 6
= 18 cm

5. Number of pencils with each one = 24 ÷ 4 = 6 pencils.

6. 06 : 00
It's six o'clock

7. Total money with her
= 7,562 + 1,234 = 8,796 pounds.

6 Alexandria

1 1. < 2. < 3. 5
4. 28 5. square 6. 9
7. trapezium 8. 3,000
9. 6

2 1. The area = 4 × 3
= 12 square centimeters

2. 11,377 3. 383

4. Number of books on each shelf = 32 ÷ 4 = 8 books

5. 97,210

6. **The order is :** 17,003 , seventeen thousands , 9,000 , 1,700

7. Its area = 3 × 3
= 9 square meters.

7 Alexandria

1 1. 5 2. 7 3. 20
4. 20,000 5. 6 × 7 6. 2
7. 3 8. 4 9. 8

2 1. The price of each pen
= 32 ÷ 4 = 8 pounds.

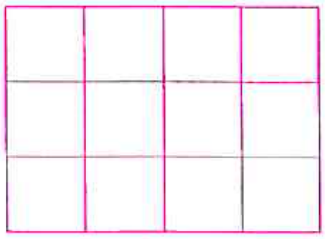
2. The area = 6 × 4
= 24 square centimeter

3. 20,489

4. **The order is :**
3 hundreds , 30,000
, three hundred thousands

3 1. 2,120

2. The perimeter = 3 + 4 + 3 + 2
= 12 cm

3. 

(Drawing my vary)
The product = 3 × 4 = 12

8 El-Kalyoubia

1 1. 60,260 2. 4,000 3. 48
4. < 5. 8 × 7 6. 10
7. trapezium 8. 9
9. 7

2 1. 8,043
2. The number of mangoes
= 7 × 3 = 21 mangoes
3. The number of oranges in each plate = 21 ÷ 3 = 7 oranges
4. 698
5. 1 , 2 , 3 , 6 6. 6,212
7. The perimeter = 7 + 2 + 7 + 2
= 18 cm

9 El-Sharkia

1 1. 16 2. 900,000
3. 8 4. 8,000 5. >
6. 3 7. 7 8. 5
9. 45,378

2 10. square , rectangle (answer may vary)
11. Its area = 2 × 3
= 6 square meters.
12. 1 , 2 , 3 , 4 , 6 , 12
13. 4,436
14. **The order is :** 7,234 , 7,235
11,012 , 12,011 , 109,001
15. 10,280
16. Four hundred three thousand , eight hundred thirty-two

10 El-Monofia

1 1. thousands 2. 180
3. 5 4. 49 5. 4
6. 32,540 7. 4 8. 5
9. 600

2 1. **The order is :** 7,215 , 7,345
, 26,128 , 62,125
2. The number of pens for each friend = 35 ÷ 7 = 5 pens

3. The area = 6 × 4
= 24 square centimeters

4. a. 448 b. 265

5. The perimeter = 5 + 5 + 5 + 5
= 20 centimeters

6. 3 × 50 = (3 × 5) × 10
= 15 × 10 = 150

7. a. 3 children b. 2 children

11 El-Gharbia

1. 1. 5 2. 9 3. 5
4. 400 5. 3 6. 444
7. 70 8. 30 9. 40

2. 1. a. 1 child b. 2 children
c. 7 children
2. 2 The share of each child
= 30 ÷ 6 = 5 toys

3. 1. a. 2 × 2 b. 2 × 3 c. 3 × 5
2. **The order is :** 3,257 , 3,725 , 9,432 , 9,634

4. 1. 09 : 20
2. The remainder = 4,800 − 3,465
= 1,335 pounds.
3. Perimeter = 2 + 4 + 2 + 4
= 12 length unit
Area = 2 × 4 = 8 square units

12 El-Dakahlia

1. a. 1. 7,000 2. 16 3. 8
b. Amira paid = 9 × 50
= 450 pounds.

2. a. 1. 70,531 2. 70 3. 2
b. The number of fish in each tank = 56 ÷ 7 = 8 fish

3. a. 1. Parallelogram
2. 4 vertices 3. 2 pairs
b. 1. rectangle 2. 180
3. 9

4. a. Perimeter = 5 + 7 + 5 + 7
= 24 cm
Area = 7 × 5
= 35 square centimeters
b. 1. 4,064 2. 6,550
3. 32,000

5. a. 1. 4 children 2. 12 years
b. 1. 7 heads 2. 4 tails
3. 11

13 Ismailia

1. 1. 20,000 2. 4,255 3. 15
4. 12 5. 240 6. 2
7. square 8. 5 9. 9

2. 10. 28 11. 281
12. 3 × 8 13. 03 : 45

14. Square , rectangle
15. The area = 5 × 5
= 25 square centimeters
16. 4 × 8 = (4 × 4) + (4 × 4)
= 16 + 16 = 32

14 Suez

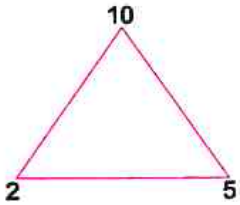
1 1. 4,000 2. 5,702 3. 8
4. 15 5. 5,000 6. 60
7. 28 8. 4 9. 24

2 1. 3,215
2. **The order is :** 2,753 , 4,751
6,173 , 8,351
3. 87,430
4. **(132 + 279)** + 114
= **411** + 114 = **525**
5. Ibrahim paid = 3 × 30
= 90 pounds.
6. The price of 4 meters
= 8 × 4 = 32 L.E.
7. The perimeter = 2 + 4 + 2 + 4
= 12 length units.
The area = 4 × 2
= 8 square units.

15 Kafr El-Sheikh

1 1. thousands 2. =
3. 15 4. 7 5. 10
6. 303 7. circle
8. 86,432 9. 3

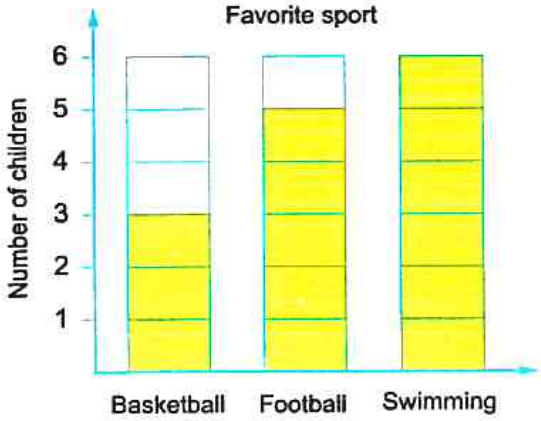
2 1. 12
2. 4,000 + 200 + 60 + 8
3. 5,535
4. The price of each pen
= 45 ÷ 5 = 9 pounds
5. **a.** Perimeter = 12 cm
b. Area = 9 square centimeter
6. 2 × 5 = 10
5 × 2 = 10
10 ÷ 2 = 5
10 ÷ 5 = 2



7.

Favorite Sports

Sports	Tally	Number
Basketball	|||	3
Football	卌	5
Swimming	卌 |	6



16 El-Beheira

1 1. 0 2. = 3. 4
4. 36 5. 1,200 6. 10
7. 8 8. 9 9. 50

2 1. **a.** 7,540 **b.** 4,057

2. The left money
= 5,000 – 3,550 = 1,450 L.E.

3. Number of apples = 6 × 5
= 30 apples.

4. a. 3,809 b. 6,155
c. 36

5. 3 × 8 = 24
8 × 3 = 24
24 ÷ 3 = 8
24 ÷ 8 = 3

6. Perimeter = 6 + 2 + 6 + 2
= 16 centimeters
Area = 2 × 6
= 12 square centimeters

7. a. Trapezium b. Pentagon
c. Cube

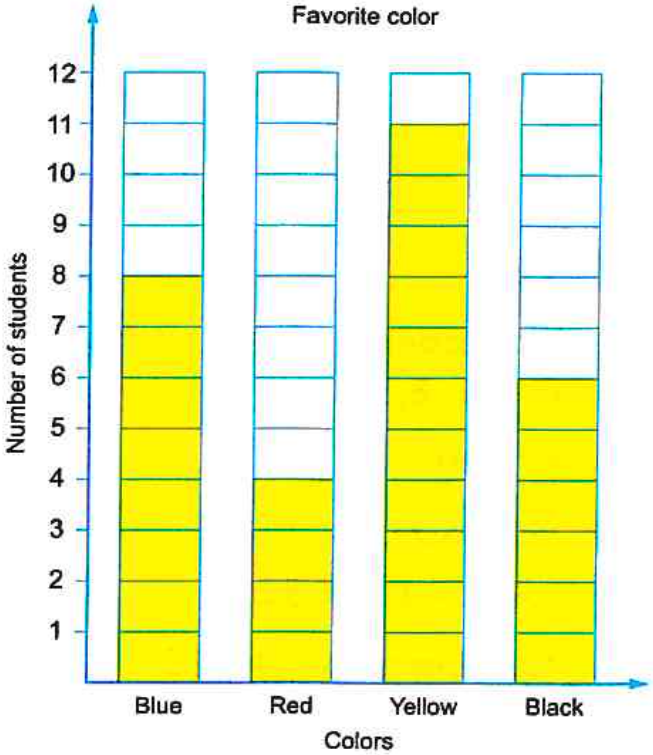
17 El-Menia

1
1. 840 2. > 3. 50,000
4. pentagon 5. 4 6. 8 × 9
7. 6,502 8. 180 9. 17,000

2
1. 90,000 + 6,000 + 200 + 70 + 3
2. 1 , 2 , 4 , 8
3. a. 7,813 b. 2,406
4. Area = 12 □
Perimeter = 14 length unit.
5. Omar paid = 6 × 50
= 300 pounds.
6. It's half past 10
10 : 30

7.

Colors	Tallies	Number
Blue	𝍸 |||	8
Red	||||	4
Yellow	𝍸 𝍸 |	11
Black	𝍸 |	6



18 Souhag

1
1. 1 2. 120 3. 20
4. 3 5. 0 6. 65,048
7. 38 8. 7 9. 11

2
1. The length of the fence
= 6 + 3 + 6 + 3 = 18 m
The area = 6 × 3
= 18 square meters
2. (5 × 9) × 10
= 45 × 10 = 450

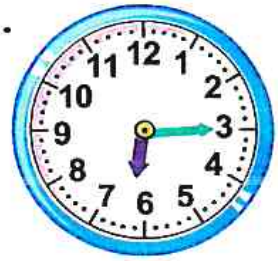
3. 6 , 12 , 18

4. **a.** 1 × 12 , 2 × 6 , 3 × 4
   b. 4,007

5. The number of loaves of bread
   = 4 × 5 = 20 loaves of bread.

6. **The order is :** 35,271 , 75,342 , 253,000 , 253,420

7. **a.**



b. 07 : 30

19 Qena

1
1. 5
2. >
3. 7
4. 572,843
5. trapezium
6. 38
7. 340
8. 150
9. hundreds

2
1. It is half past 4

2. They have = 238 + 421
   = 659 pounds.

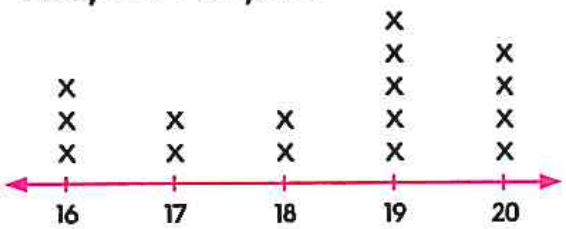
3. Perimeter = 6 + 3 + 6 + 3
   = 18 cm
   Area = 6 × 3
   = 18 square centimeters

4. The number of eggs in each plate = 18 ÷ 3 = 6 eggs

5. **a.** 2,775 **b.** 303

6. **The order is :** 83,415 , 52,791 , 20,109 , 17,072

7.



Key Each x = 1 student

20 Aswan

1
1. 7
2. 2,000
3. 4,600
4. 7,000
5. 9,835
6. 5
7. 32
8. 3
9. trapezoid

2
1. **The order is :** 1,672 , 2,345 , 3,265 , 5,437
2. The perimeter
   = 3 + 6 + 3 + 6 = 18 cm
   The area = 3 × 6
   = 18 square centimeters
3. 7,000 + 500 + 20 + 3
4. The price of 5 books
   = 5 × 10 = 50 pounds.
5. **a.** 54,321 **b.** 12,345
6. The perimeter
   = 3 + 5 + 4 = 12 cm
7. **a.** 6,670 **b.** 5,331